

**ARMY TM 9-1005-313-10
AIR FORCE T.O. 11W2-6-5-1
MARINE CORPS TM 08670A/09712A-10/1B
NAVY SW360-AH-OPI-010
Supersedes copy dated 19 July 1996**

**OPERATOR'S MANUAL FOR
MACHINE GUN, 7.62MM, M240 (1005-01-025-8095);
M240B (1005-01-412-3129); M240C (1005-01-085-4758)
M240D (1005-01-418-6995); M240E1 (1005-01-252-4288)
M240G (1005-01-359-2714); M240H (1005-01-518-2410)
M240N (1005-01-493-1666)**

DISTRIBUTION STATEMENT C: Distribution authorized to U.S. Government agencies and their contractors. This publication is required for administration and operational purposes, as determined 9 Jan 1989. Other request for this document shall be referred to: Tank-automotive and Armaments Command, 1 Rock Island Arsenal, Rock Island, IL 61299-7630.

**HEADQUARTERS, DEPARTMENTS OF THE ARMY,
AIR FORCE, MARINE CORPS AND NAVY**

NOVEMBER 2002

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WARNING SUMMARY

Observe all the warnings in this manual. They can save your life.

Be sure to clear weapon before disassembling, cleaning, inspecting, transporting, or storing.

Ensure that assigned/spare barrels have been headspaced and tagged to your receiver. Rotate usage of the barrels.

Do not interchange barrel assembly or bolt assembly from one machine gun to another without being headspaced/gaged. Doing so may result in injury to, or death of, personnel.

Never reload a runaway weapon until it is repaired. Be sure weapon is cleared before removing it from vehicle/tripod mount.

Before firing, make sure the barrel is locked tightly in the receiver. If the barrel is not locked, threads in receiver could be damaged or cause personal injury.

A hot barrel can burn you. If the barrel is hot, use your heat resistant mitten.

WARNING SUMMARY (cont)

Using gasoline, kerosene, hydraulic oil, benzene, bensol, high-pressure water, steam, or air for cleaning is prohibited.

If nothing is ejected and you have a hot gun (200 rounds fired within a 2 minute period), do **NOT** open the cover. Place safety to "S" safe, keep weapon pointed down range, and remain away from the weapon for 15 minutes. After 15 minutes, clear your weapon (WP 0010 00).

The climate temperature in different regions will make a difference as to what constitutes a hot gun. A hot, sunny day can cause a cook-off within 50 rounds, weapon and ammunition in the sun.

If runaway occurs, always keep machine gun pointed down range.
Always keep weapon pointed down range.

Appropriate eye protection is recommended when cleaning your weapon and/or its parts.

Use care when removing excess carbon, carbon may chip off and fly into eyes.

Cleaning solvent is FLAMMABLE and TOXIC and must be kept away from open flames and used in a well-ventilated area. Use of rubber gloves is necessary to protect the skin when washing machine gun parts.

The canvas cover above the driver and passenger seats should always be in place when firing.

Firing on the move is not permitted from the M998 HMMWV (Cargo/Troop Carrier).

Ground personnel should not be within 10 meters of any vehicle when firing. All personnel within 20 meters of a weapon firing shall wear approved single hearing protection devices during training exercises.

This is the only ammunition authorized for use in your machine gun. If it is not shown, it is not authorized.

Ammunition that fails to fire will be disposed of by authorized procedures. Stay clear of muzzle. Do not allow round to hit any hard surface or it may fire. Dispose of live round(s) in accordance with local procedures.

WARNING SUMMARY (cont)

For manual infantry trigger weapons (B, G & N), proper trigger control is pulling the trigger fully to the rear and then releasing completely. For spade grip weapons (D, E-1 & H), proper trigger control is depressing the butterfly trigger fully down, then releasing completely. Squeezing/partial pulling of the Infantry trigger or partial depression of the butterfly trigger can cause accelerated wear on the trigger-tripping lever, sear and operating rod, leading to a runaway gun.

First aid

For further information on first aid, see FM 4.25-11.

**CHANGE
NO. 2**

**ARMY TM 9-1005-313-10
AIR FORCE T.O. 11W2-6-5-1
MARINE CORPS TM 08670A/09712A-10/1B
NAVY SW360-AH-OMI-010
WASHINGTON D.C., 20 MAY 2005**

**Technical Manual
Operator's Manual**

**MACHINE GUN, 7.62MM, M240 (1005-01-025-8095)
MACHINE GUN, 7.62MM, M240B (1005-01-412-3129)
MACHINE GUN, 7.62MM, M240C (1005-01-085-4758)
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MACHINE GUN, 7.62MM, M240N (1005-01-493-1666)**

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TM 9-1005-313-10, 15 November 2002, is updated as follows:

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Replace the following work packages with their revised version.

Work Package No.

WP 0009

WP 0038

By Order of the Secretary of the Army:

PETER J. SCHOOMAKER
General, United States Army
Chief of Staff

Official:



Sandra R. Riley

SANDRA R. RILEY

*Administrative Assistant to the
Secretary of the Army
0511008*

DISTRIBUTION: To be distributed in accordance with Initial Distribution Number (IDN) 400559 requirements for TM 9-1005-313-13.

**CHANGE
NO. 1**

**ARMY TM 9-1005-313-10
AIR FORCE T.O. 11W2-6-5-1
MARINE CORPS TM 08670A/09712A-10/1B
NAVY SW360-AH-OMI-010
WASHINGTON D.C., 15 April 2005**

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Work Package No.

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WP 0007

WP 0008

WP 0011

WP 0019

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WP 0035

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Cover

By Order of the Secretary of the Army:

PETER J. SCHOOMAKER
General, United States Army
Chief of Staff

Official:

A handwritten signature in black ink that reads "Sandra R. Riley". The signature is fluid and cursive, with "Sandra" on top and "R. Riley" below it.

SANDRA R. RILEY
Administrative Assistant to the
Secretary of the Army
0507504

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LIST OF EFFECTIVE PAGES

NOTE: The portion affected by this revision are indicated by a vertical line in the outer margin of the page.

Dates of issue for original and change pages are:

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| Original | 0 | 15 November 2002 | Change 2 | 20 | May | 2005 |
| Change | 1 | 15 April 2005 | | | | |

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AIR FORCE T.O. 11W2-6-5-1
MARINE CORPS TM 08670A/09712A-10/1B
NAVY SW360-AH-OMI-010**

TECHNICAL MANUAL

ARMY NO. 9-1005-313-10

AIR FORCE NO. 11W2-6-5-1

MARINE CORPS NO. 08670A-10/2B

NAVY NO. SW360-AH-OMI-010

CHANGE 1

**HEADQUARTERS
DEPARTMENTS OF THE ARMY
AIR FORCE, MARINE CORPS,
AND NAVY
Washington, D.C., 15 Nov 2002**

Operator's Manual

MACHINE GUN, 7.62MM, M240 (1005-01-025-8095)

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MACHINE GUN, 7.62MM, M240N (1005-01-493-1666)

* This manual supersedes TM 9-1005-313-10, dated 19 July 1996, with all changes, and Marine Corps TM 08670B-10/1A, Supplement 1, dated 29 July 1994.

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of any way to improve the procedures, please let us know. Submit your DA Form 2028 (Recommended Changes to Equipment Technical Publications), through the Internet, on the Army Electronic Product Support (AEPS) website. The internet address is <http://aepls.ria.army.mil>. If you need a password, scroll down and click on "ACCESS REQUEST FORM". The DA 2028 form is located in the ONLINE FORMS PROCESSING section of the AEPS. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage to DA Form 2028 program. You may also mail, fax, or E-mail your letter or DA Form 2028 direct to: AMSTA-LC-CI/TECH PUBS, TACOM-RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The email address is TACOM-TECH-PUBS@ria.army.mil. The fax number is DSN 793-0726 or commercial (309) 782-0726. Marine Corps users submit NAVMC Form 10772 via Marine Corps Publications website at: <http://pubs.ala.usmc.mil>. Air Force requests for this document shall be referred to WR-ALC/LKC, Robins AFB, GA 31098-1640. Navy users submit Recommended Changes to Publications to Commander, Naval Surface Warfare Center, Crane Division, Code 4081, Crane, IN 47522-5001. A reply will be furnished to you.

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HOW TO USE THIS MANUAL

In order to use this manual, there are several things you need to know.

- 1) All references in the manual are to work packages or to another manual.
- 2) Procedures apply to all models unless otherwise specified.

This manual is organized to help you quickly find the information you need.

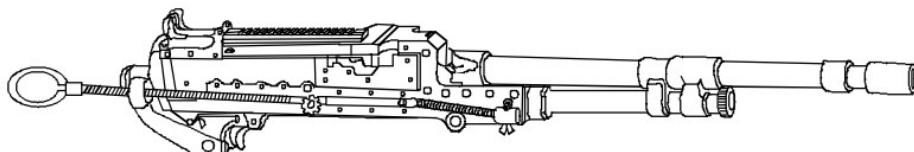
- 1) Table of Contents: List in order all chapters and work package references.
- 2) Component of End Item (COEI): List of items that are part of the end item, but are shipped separately. It is not an authorization to requisition replacements.
- 3) Basic Issue Items (BII): List of minimum essential items required when weapon is in operation, and to perform emergency repairs. This manual is your authorization to request/replace BII.

CHAPTER 1

GENERAL INFORMATION,

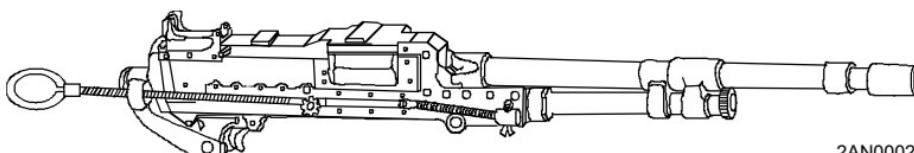
DESCRIPTION AND

THEORY OF OPERATION



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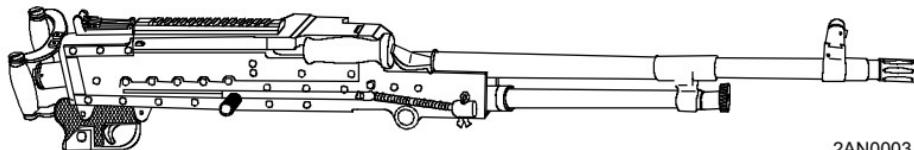
M240



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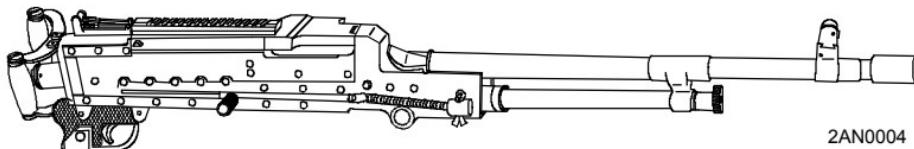
M240C

0001 00-1



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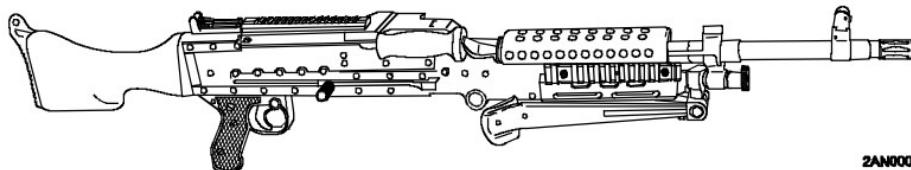
M240D



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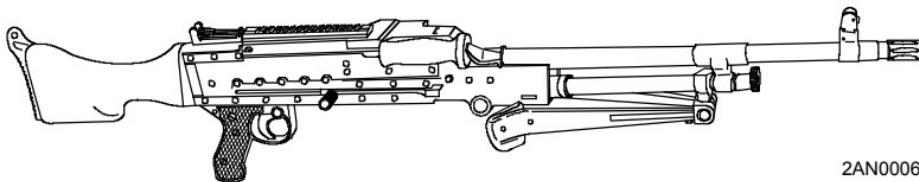
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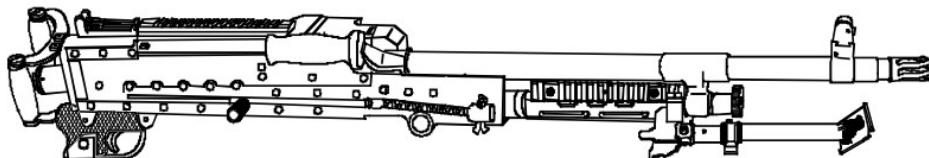
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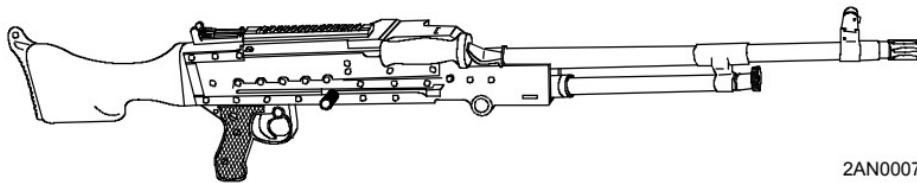
2AN0006

M240G

0001 00-3



M240H



2AN0007

M240N

0001 00-4

Change 1

SCOPE

Type of Manual: Operator's Manual.

Model Number and Equipment Name:

M240, 7.62mm, Machine Gun

M240B, 7.62mm, Machine Gun

M240C, 7.62mm, Machine Gun

M240D, 7.62mm, Machine Gun

M240E1, 7.62mm, Machine Gun

M240G, 7.62mm, Machine Gun

M240H, 7.62 mm Machine Gun

M240N, 7.62mm, Machine Gun

Purpose of Equipment:

M240/M240C – Designed as coaxial machine gun for tanks and 7.62mm fire power on light armored vehicles.

M240B/M240G – Designed as a tripod mounted or bipod supported machine gun for use by ground forces. The bipod is integrated into the receiver assembly of the weapon.

M240E1 - Designed with front and rear sights, uses 7.62mm ammunition, and spade grip trigger device and is pintle mounted on light armored vehicles.

M240D/M240H - Designed with front and rear sights, uses 7.62mm ammunition, and spade grip trigger and is mounted in helicopter applications. M240H has a forward rail for accessory mounting and integral bipod.

M240N– Designed with front and rear sights, and configured for mounting on watercraft in single or dual configuration.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS).

Marine Corps users refer to TM 4700-15/1, Ground Equipment Record Procedures.

**REPORTING EQUIPMENT IMPROVEMENT
RECOMMENDATIONS (EIR)**

0003 00

If your machine gun needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Product Quality Deficiency Report). Mail to the address specified in DA PAM 738-750, Functional users Manual for the Army Maintenance Management System (TAMMS), or as specified by the acquiring activity. We will send you a reply.

Army users submit an SF 368 (QDR) and mail to: Commander, U.S. Army Armament Research Development and Engineering Center, ATTN: AMSTA-AR-QAW-A, 1 Rock Island Arsenal, Rock Island, IL 61299-7630.

Marine Corps users submit QDR's or SF 368 in accordance with MCO 4855.10 to: Commanding General, Marine Corps Logistics Base (Code 808), Albany, GA 31704-5000.

We'll send you a reply.

0003 00-1/2 blank

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in the future.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using SF 368, Product Quality Deficiency Report. Use key words such as "corrosion", "rust", "deterioration", or "cracking" will ensure that the information is identified as a CPC problem.

The form should be submitted to the address specified in DA PAM 738-750, Functional Users Manual for the Army Maintenance Management System (TAMMS).

Marine Corps users: The prevention of corrosion on any equipment is important and is critically important for safe functioning of your machine gun. Corrosion prevention is carried out in accordance with TM 3080-12 (Corrosion Prevention and Control for Marine Corps Equipment). If a recurrent corrosion problem is identified, it should be reported on SF 368 (Product Quality Deficiency Report) in accordance with guidance contained in MCO 4855.10 (Product Quality Deficiency Report).

**DESTRUCTION OF ARMY MATERIEL
TO PREVENT ENEMY USE**

0005 00

Procedures and materials used for the destruction of the machine gun to prevent enemy use will be found in TM 750-244-7.

Marine Corps users render the M240 inoperable by smashing, shattering, and concealing disassembled pieces.

0005 00-1/2 blank

PREPARATION FOR STORAGE OR SHIPMENT**0006 00**

Storage and shipment shall be in accordance with local procedures and AR 190-11, Physical Security of Arms, Ammunition and Explosives.

0006 00-1/2 blank

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

Equipment Characteristics:

M240/M240C – Designed as coaxial machine gun for tanks and 7.62mm fire power on light armored vehicles.

M240B/M240G – Designed as a tripod mounted or bipod supported machine gun for use by ground forces. The bipod is integrated into the receiver assembly of the weapon. M240B has a forward rail for accessory mounting.

M240E1 - Designed with front and rear sights, uses 7.62mm ammunition, and spade grip trigger device and is pintle mounted on light armored vehicles.

M240D/M240H - Designed with front and rear sights, uses 7.62mm ammunition, and spade grip trigger and is mounted in helicopter applications. M240H has a forward rail for accessory mounting and integral bipod.

M240N– Designed with front and rear sights, and configured for mounting on watercraft in single or dual configuration.

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES (cont)**Capabilities and Features:**

The M240 Series Machine Gun is gas-operated and fires from the open bolt position. The 7.62mm is the authorized round for the machine gun (WP 0035 00).

The M240B has a buttstock and hydraulic buffer assembly and can be mounted on the M122A1 Tripod or M192 Lightweight Tripod (refer to TM 9-1005-245-13&P).

■ The M240D/M240E1/M240H has a spade grip for closed-in space triggering (for use on vehicles (M240E1) and aircraft (M240D.M240H)).

The M240G has a buttstock and buffer assembly and can be mounted on the M122 Tripod with a flexible mount (Marine Corps only).

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

Barrel Assembly (A) – Houses cartridge for firing and directs projectile.

Buffer Assembly/Buffer and Spade Grip Assembly/Buttstock and Buffer Assembly (B) – Absorbs recoil for bolt and operating rod assembly at the end of recoil movement. The spade grip assembly initiates firing for the M240D/M240E1/M240H models.

Driving Spring Rod Assembly (C) - Provides energy for returning bolt and operating rod assembly to firing position.

Bolt and Operating Rod Assembly (D) – Provides feeding, striping, chambering, firing, extraction, and ejection of cartridges using the projectile propelling gases for power.

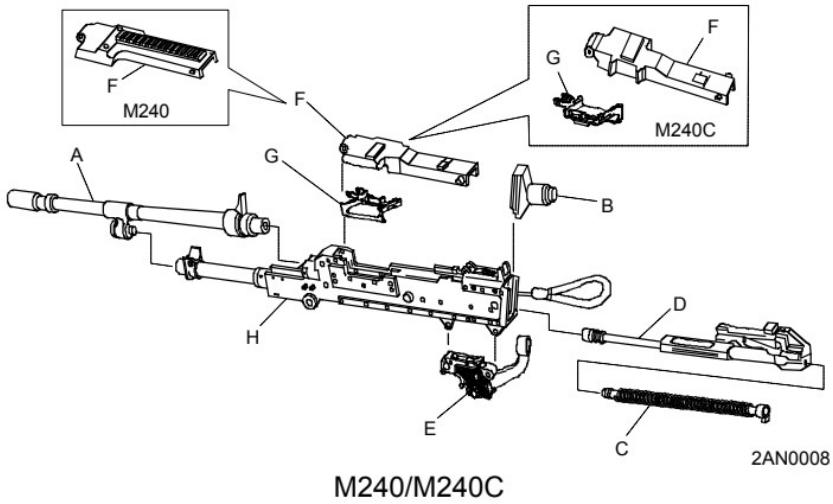
Trigger Housing Assembly (E) – Controls the firing of the machine gun.

Cover Assembly (F) - Feeds linked belt, positions and holds cartridges in position for stripping, feeding and chambering. Cover has integral sight mounting rail for current/future accessories (all models except M240C).

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)

Feed Tray (G) – Serves as a guide for positioning cartridges to assist in chambering.

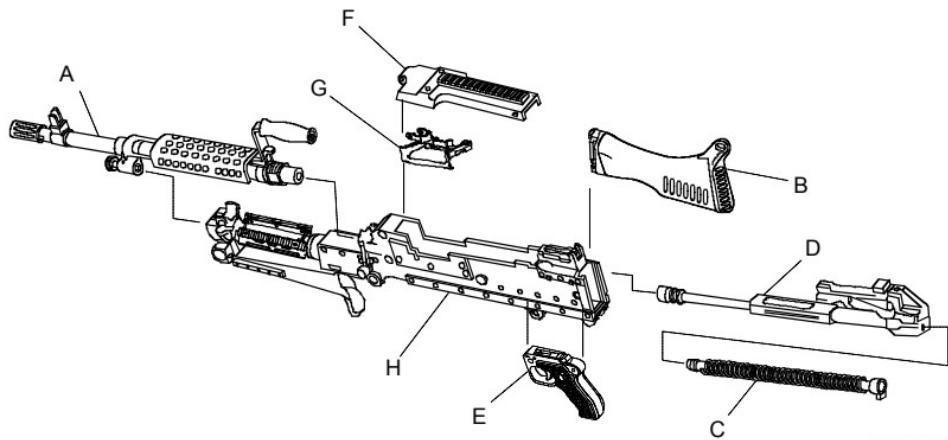
Receiver Assembly (H) – Serves as a support of all major components. The receiver houses action of weapon, and controls functioning of weapon through a series of cam ways. Receiver has a forward integral mounting rail for current/future accessories (M240B/M240H).



0007 00-5

Change 1

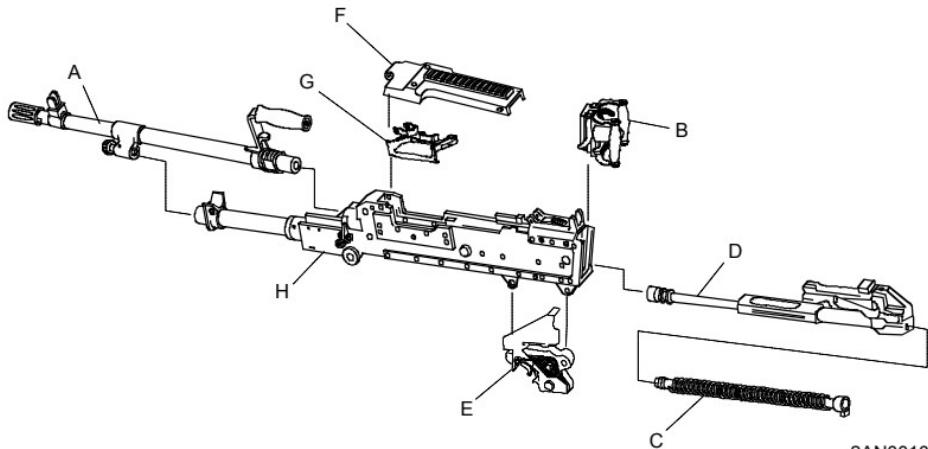
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)



2AN0009

M240B

0007 00-6

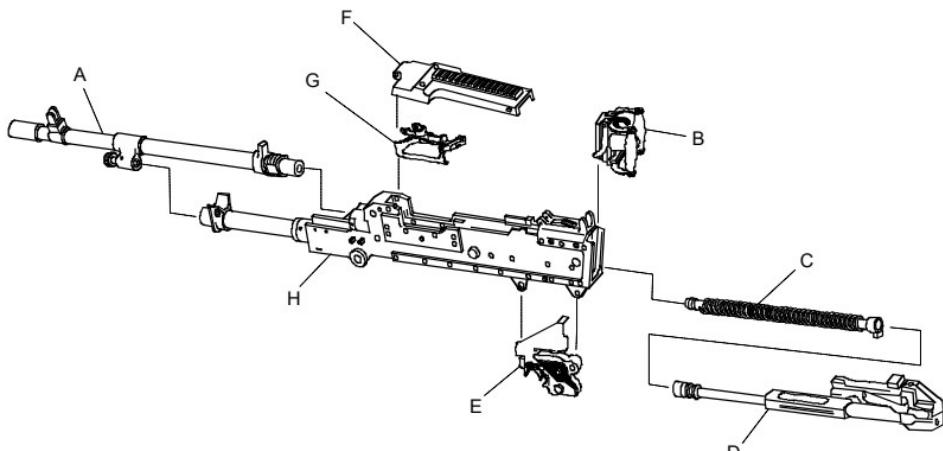


2AN0010

M240D

0007 00-7

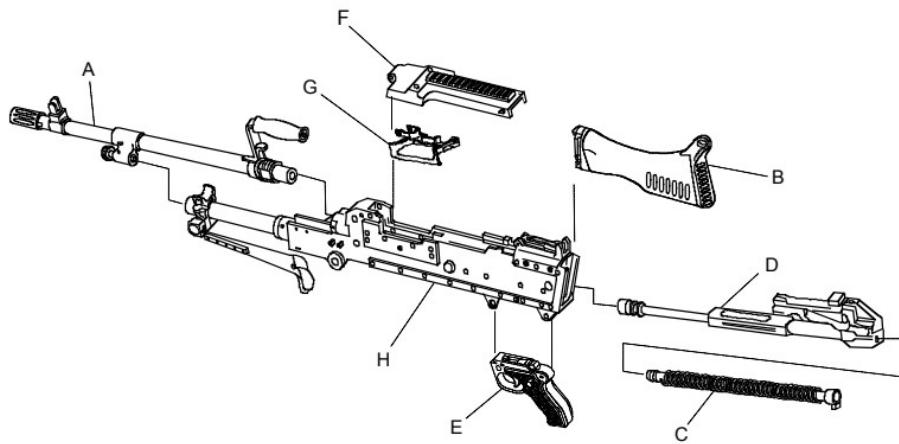
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)



2AN0011

M240E1

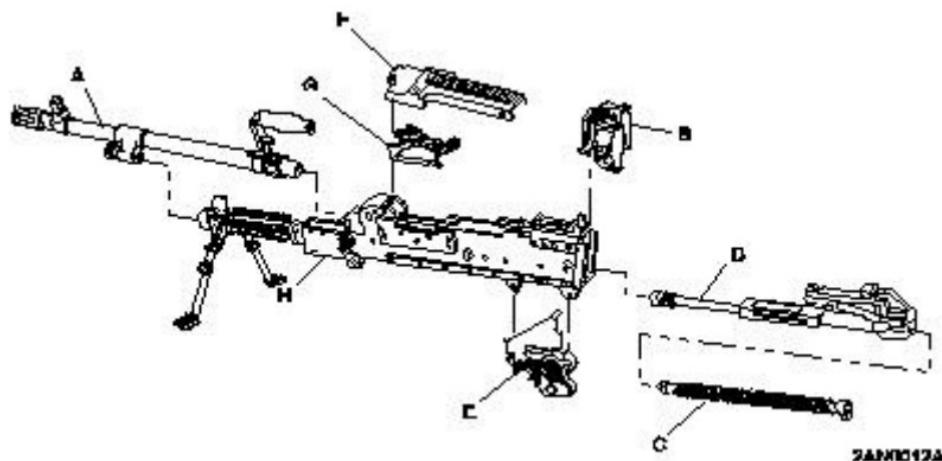
0007 00-8



2AN0012

M240G

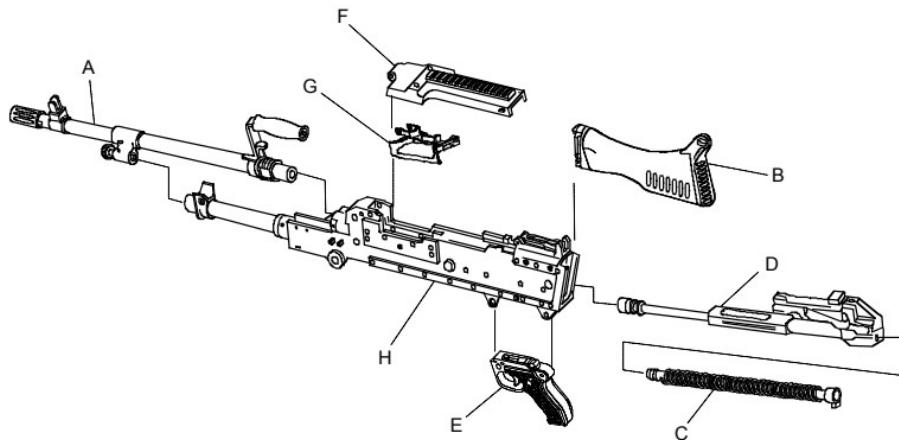
0007 00-9



M240H

0007 00-10

Change 1



2AN0013

M240N

0007 00-11

DIFFERENCES BETWEEN MODELS

Table 1. Differences Between Models

| | <u>M240</u> | <u>M240B</u> | <u>M240C</u> | <u>M240D</u> | <u>M240E1</u> | <u>M240G</u> | <u>M240H</u> | <u>M240N</u> |
|------------------|-------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| Feeds from right | | | X | | | | | |
| Feeds from left | X | X | | X | X | X | X | X |
| Cover Assy: | | | | | | | | |
| P/N 11826165 | X | | | | | | | |
| P/N 11826038 | | | X | | | | | |
| P/N 12977101 | | X | | X | X | X | X | X |
| Receiver Assy: | | | | | | | | |
| P/N 11826192 | X | | X | | | | | |
| P/N 12597044 | | | | | X | | | |
| P/N 12976834 | | X | | | | | | |
| P/N 12997566 | | | | | | X | | |
| P/N 12999179 | | | | | | | X | |
| P/N 12977104 | | | | X | | | | |
| P/N 13008744 | | | | | | | X | |

DIFFERENCES BETWEEN MODELS (cont)

| | <u>M240</u> | <u>M240B</u> | <u>M240C</u> | <u>M240D</u> | <u>M240E1</u> | <u>M240G</u> | <u>M240H</u> | <u>M240N</u> |
|-----------------------------------|-------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| Barrel Assy: | | | | | | | | |
| P/N 11825985 | X | | X | | | | | |
| P/N 12597035 | | | | | | X | | |
| P/N 12976817 | | X | | | | | | |
| P/N 12976818 | | | | X | | X | | X |
| P/N 13008220 | | | | | | | X | |
| Trigger Assy: | | | | | | | | |
| P/N 11826230 | X | | X | | | | | |
| P/N 12977118 | | | | X | X | | X | |
| P/N 12976869 | | X | | | | X | | X |
| Buffer Assy: | | | | | | | | |
| P/N 11826211 | X | | X | | | | | |
| Buffer and Spade Grip Assy: | | | | | | | | |
| P/N 12597057 | | | | X | X | | X | |

0007 00-13

Change 1

Table 1. Differences Between Models (cont)

| | <u>M240</u> | <u>M240B</u> | <u>M240C</u> | <u>M240D</u> | <u>M240E1</u> | <u>M240G</u> | <u>M240H</u> | <u>M240N</u> |
|--|-------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| Buttstock and Buffer Assy: P/N 12976851 | | | | | | X | | |
| Buttstock and Buffer Assy (Hydraulic): P/N 12988986 | | X | | | | | | X |
| Charger Cable: P/N 11826145 | X | | X | | | | | |
| Cocking Handle Assy: P/N 12597045 | | | | | X | | | |
| P/N 12976835 | X | | | | | X | | |
| P/N 12977105 | | | X | | | | | |
| P/N 12999957 | | | | | | | X | |

Procedures are written for the M240 machine gun but apply to all seven models except where noted.

EQUIPMENT DATA

Weight 10.34 Kg (22.2 lbs) (M240/M240C);
12.29 Kg (27.1 lbs) (M240B);
10.39 Kg (22.9 lbs) (M240D);
11.66 Kg (25.7 lbs) (M240E1);
11.7 Kg (25.8 lbs) (M240G);
11.7 Kg (25.8 lbs) (M240H);
10.93 Kg (24.1 lbs) (M240N)

Rate of Fire..... You get the sustained and rapid rates through practice.

EQUIPMENT DATA (cont)**NOTE**

Barrel change intervals also apply when firing blank ammunition.

- Cyclic..... 650 to 950 RDS/M – Weapon is not intended to fire at 950 RDS/M. This will cause accelerated wear/damage to the barrel and rest of weapon.
600 to 650 RDS/M – M240B/M240N with hydraulic buffer.
- Sustained 100 RDS/M (4-5 seconds between burst) – Change barrel every 10 minutes.
- Rapid 200 RDS/M (2-3 seconds between burst) – Change barrel every 2 minutes.

Range:

Maximum..... 3,725 meters

Maximum Effective (point)..... 800 meters with M122A1 Tripod (M240B)
M192 Machine Gun Tripod (M240B)
(M122 Tripod with Flex Mount Assembly
(M240G) (Marine Corps only)).

Maximum Effective (area)..... 1,800 meters with M122A1 Tripod (M240B)
M192 Machine Gun Tripod (M240B)
(M122 Tripod with Flex Mount Assembly
(M240G) (Marine Corps only)).

Tracer burnout..... Approximately 900 meters.

CHAPTER 2

OPERATING INSTRUCTIONS

FACTS ABOUT YOUR MACHINE GUN

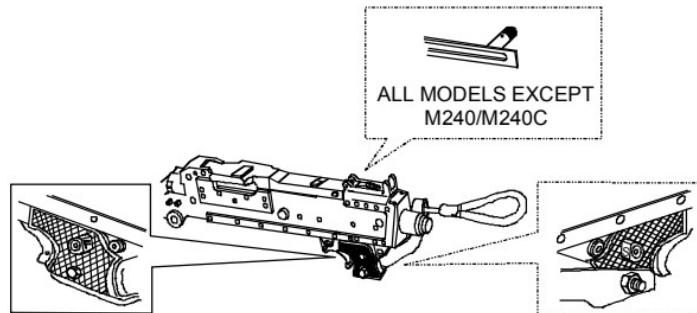
The barrel is air-cooled and has a fixed headspace allowing quick changes and maintenance when required. All models (except M240B/M240H) have multiple gas settings. Setting #1 is the standard setting. Settings #2 and #3 should only be used in combat situations when carbon build-up, cold weather, or dusty conditions reduce the firing rate. M240B/M240H with hydraulic buffers should always use gas setting #1. Bolt design permits the cover to be opened or closed, regardless of the bolt position, without damage.

NOTE

M240B/M240H will be authorized single port (setting #1) gas regulators only.

OPERATION UNDER USUAL CONDITIONS – LOADING

0009 00



2AN0015

WARNING

Under no circumstances should the safety be engaged with the bolt in the forward position.

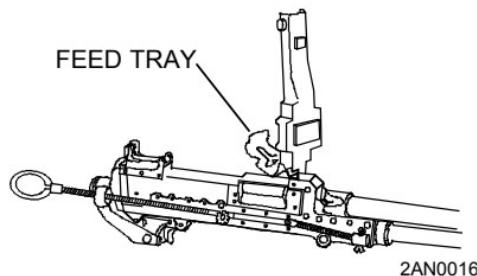
Place safety to “F” fire.

0009 00-1

**OPERATION UNDER USUAL CONDITIONS –
LOADING (cont)**

0009 00

Pull charger cable (or cocking handle assembly) to rear, and ensure bolt locks to rear. Release charger cable (or return cocking handle assembly) to fully forward and locked position.



Place safety to "S" safe.

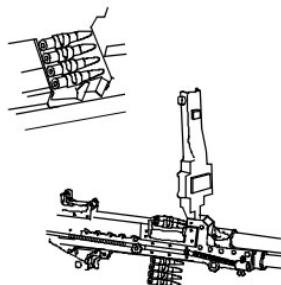
Push in latches to open cover assembly. Remove any ammunition if present.

0009 00-2

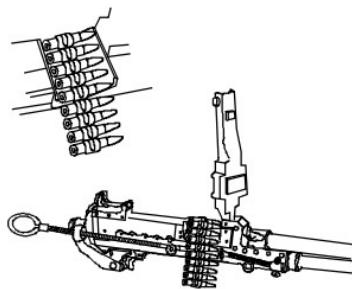
Raise feed tray. Look into chamber, make sure no round is chambered and area is free of obstructions. Lower feed tray.

Place safety to "F" fire.

Pull and hold charger cable (or cocking handle assembly) to rear, squeeze trigger and ease bolt forward to close and lock.



ALL MODELS
EXCEPT M240C



M240C

2AN0017

0009 00-3

NOTE

Position open side of links down.

Place link belt in feed tray with first round positioned against cartridge stop.

CAUTION

Make sure round does not move away from cartridge stop during closing and latching of cover.

Close cover assembly. Make sure it locks shut. (Air Force users, this is HALF-LOAD and is an authorized carry/transportation configuration of the M240B and it's ammo.)

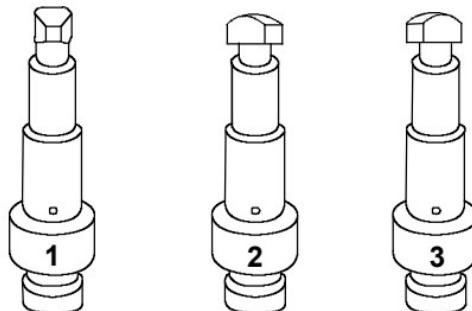
Pull charger cable (or cocking handle assembly) to rear, and ensure bolt locks to rear. Release charger cable (or return cocking handle assembly) to fully forward and locked position.

If weapon is not to be fired immediately, place safety to "S" safe. Place safety to "F" fire immediately prior to firing. (Air Force users, this is FULL-LOAD/ COMBAT LOAD configuration.)

WARNING

For manual Infantry trigger weapons (B, G & N), proper trigger control is pulling the trigger fully to the rear and then releasing completely. For spade grip weapons (D, E-1 & H), proper trigger control is depressing the butterfly trigger fully down, then releasing completely. Squeezing/partial pulling of the Infantry trigger or partial depression of the butterfly trigger can cause accelerated wear on the trigger-tripping lever, sear and operating rod, leading to a runaway gun.

FACTS ABOUT YOUR MACHINE GUN (cont)



2AN0014

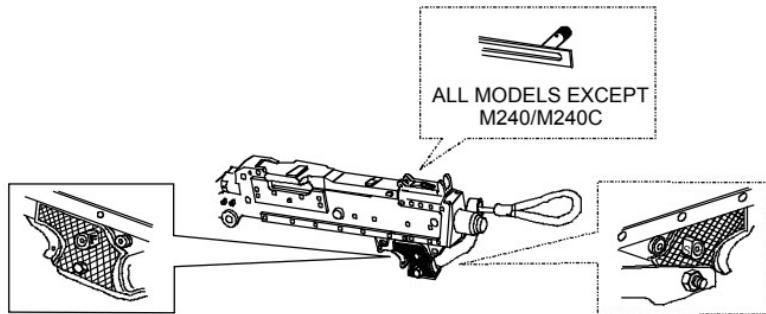
- Setting #1 = 650 RDS/M approx. (600 RD/S – M240B/M240N with hydraulic buffer)
Setting #2 = 750 RDS/M approx. (625 RD/S – M240N with hydraulic buffer)
Setting #3 = 950 RDS/M approx. (650 RD/S – M240N with hydraulic buffer)

0008 00-2

Change 1

OPERATION UNDER USUAL CONDITIONS – CLEARING

0010 00



2AN0015

Place safety to “F” fire.

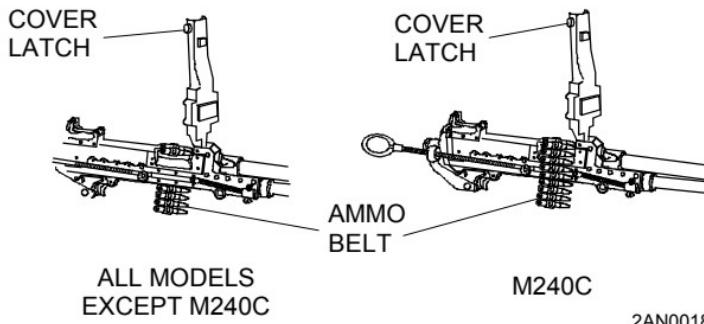
Pull charger cable (or cocking handle assembly) to rear, and release. Ensure cocking handle assembly is in fully forward and locked position.

Place safety to “S” safe.

0010 00-1

**OPERATION UNDER USUAL CONDITIONS –
CLEARING**

0010 00

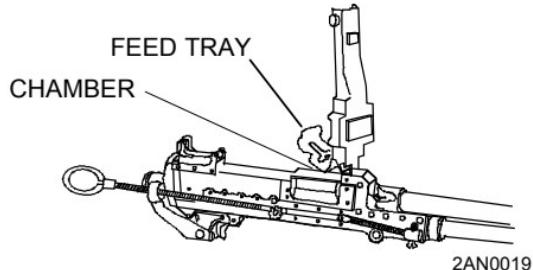


2AN0018

Push in latches to open cover assembly.

Remove ammunition belt.

0010 00-2



Raise feed tray. Look into chamber to make sure it is empty. If a round is still in the chamber, refer to ruptured/stuck cartridge case or live round procedures (WP 0016 00 and WP 0017 00).

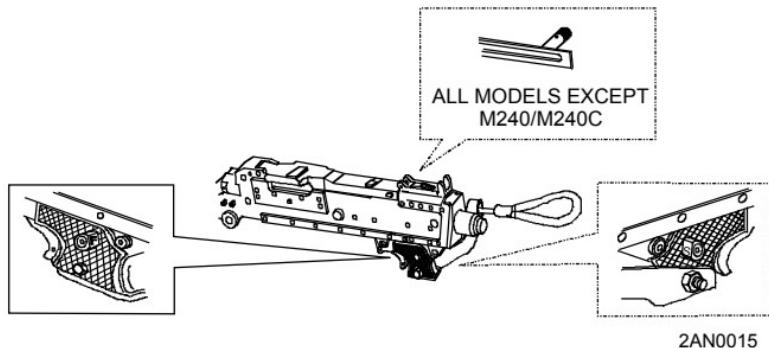
Lower feed tray.

Place safety to "F" fire.

0010 00-3

**OPERATION UNDER USUAL CONDITIONS –
CLEARING (cont)**

0010 00



Pull and hold charger cable (or cocking handle assembly) to rear, pull trigger and ease bolt forward to close and lock.

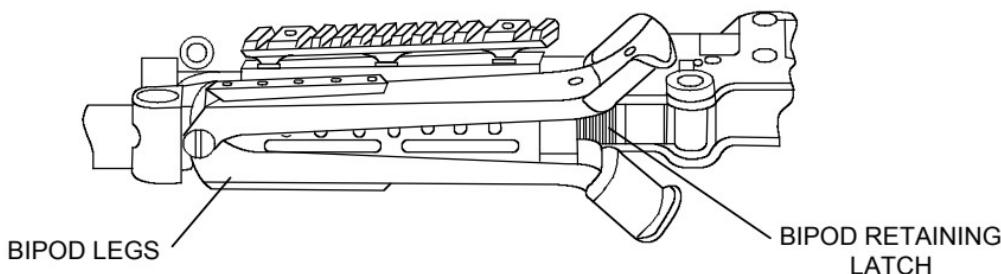
Close cover assembly. Make sure it locks shut.

NOTE

Be sure bolt is forward with safety in "F" fire when gun is not in use.

OPERATION UNDER USUAL CONDITIONS – OPERATION OF BIPOD

0011 00



2AN0021

To operate the weapon from the bipod (M240B/M240G):

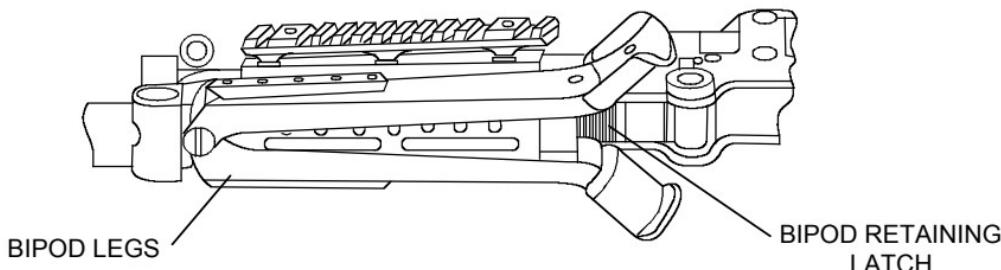
Depress the bipod retaining latch, while holding the bipod legs together to disengage them from the receiver

Rotate the bipod legs down and release them so they lock in the vertical position.

0011 00-1

**OPERATION UNDER USUAL CONDITIONS –
OPERATION OF BIPOD (cont)**

0011 00



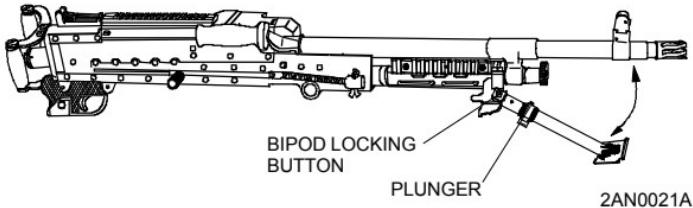
2AN0021

To return the bipod to locked upright position:

Hold the bipod legs together to disengage them from the locked vertical position.

Rotate legs rearward, depress the bipod latch and engage the bipod leg hooks into the slots of receiver. Release the bipod retaining latch to its original position, locking the legs into position.

0011 00-2



To operate the weapon from the bipod (M240H):

Depress the bipod locking button and rotate the bipod legs down and rearward until they lock in the vertical position.

To return the bipod to locked upright position:

Depress the bipod locking button and rotate the bipod legs up and forward until they lock in the horizontal position.

To adjust the height of the legs depress bipod plunger and slide the lower leg to the desired height.

**OPERATION UNDER USUAL CONDITIONS –
DEFINITIONS**

0012 00

STOPPAGE – Any interruption in the cycle of operation of the gun.

IMMEDIATE ACTION – Prompt actions taken by the crew to overcome a stoppage.

REMEDIAL ACTION - Action taken to identify stoppage, if immediate action fails.

COOK-OFF – This is a peacetime classification only. The gun will be classed as a hot or cold gun in the interest of safety.

CLASSIFICATION OF HOT GUN

- More than 200 rounds fired within a 2 minute period.
- A long continuous burst or repeated firing of the weapon even though you do not reach 200 rounds.
- Less than 15 minutes have lapsed without a round being fired from a hot gun.
- If the vehicle Commander for any reason determines the weapon is hot.

**OPERATION UNDER USUAL CONDITIONS –
IMMEDIATE ACTION**

0013 00

WARNING

If nothing is ejected and you have a hot gun (200 rounds fired within a 2 minute period), do **NOT** open the cover. Place safety to “S” safe, keep weapon pointed down range, and remain away from the weapon for 15 minutes. After 15 minutes, clear your weapon (WP 0010 00).

The climate temperature in different regions will make a difference as to what constitutes a hot gun. A hot, sunny day can cause a cook-off within 50 rounds, weapon and ammunition in the sun.

0013 00-1

**OPERATION UNDER USUAL CONDITIONS –
IMMEDIATE ACTION (cont)**

0013 00

Charge the weapon.

Attempt to fire.

If the gun does not fire, pull charger cable (or cocking handle assembly) rearward to lock bolt assembly back (return cocking handle assembly to forward locked position), place safety on “S” safe, then:

- If Hot Gun – Keep weapon pointed down range for 15 minutes, then perform remedial action.
- If Cold Gun – Perform remedial action.

**OPERATION UNDER USUAL CONDITIONS –
REMEDIAL ACTION**

0014 00

Clear the weapon (WP 0010 00).

Visually inspect weapon.

Load and attempt to fire.

If weapon does not fire, notify unit maintenance.

0014 00-1/2 blank

OPERATION UNDER USUAL CONDITIONS – RUNAWAY MACHINE GUN

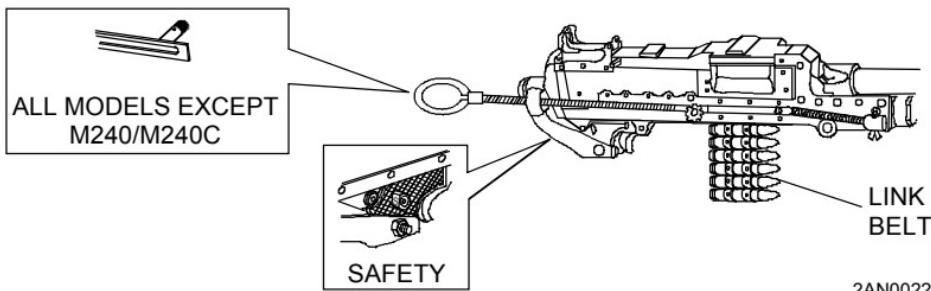
0015 00

WARNING

Always keep weapon pointed down range.

Never reload a runaway weapon until it is repaired. Be sure weapon is cleared (WP 0010 00) before removing it from vehicle/tripod mount.

If runaway occurs (weapon won't stop firing), take any of the 3 actions below to stop the runaway. Then notify unit maintenance.



2AN0022

0015 00-1

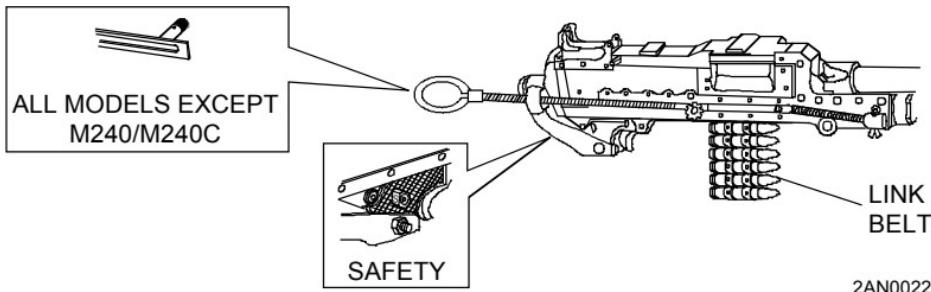
OPERATION UNDER USUAL CONDITIONS – RUNAWAY MACHINE GUN (cont)

0015 00

Let weapon fire if near end of link belt.

Break link belt (grasp link belt and twist it firmly).

Grab charger cable (or cocking handle assembly), pull all the way back and hold.
Place safety to “S” safe and remove ammunition belt.



0015 00-2

OPERATION UNDER USUAL CONDITIONS – STUCK CARTRIDGE CASE OR LIVE ROUND

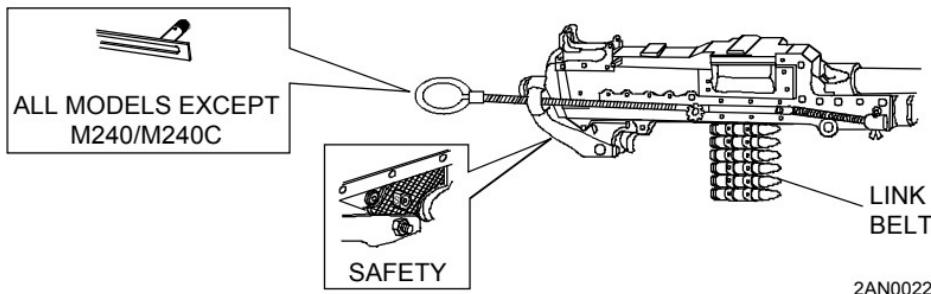
0016 00

WARNING

Stay clear of muzzle. Do not allow round to hit any hard surface or it may fire. Dispose of live round(s) in accordance with local procedures.

If weapon fired but didn't extract, you have a stuck cartridge case. If weapon did not fire and didn't extract, you have a stuck live round.

Charge the weapon, and place safety on "S" safe.



2AN0022

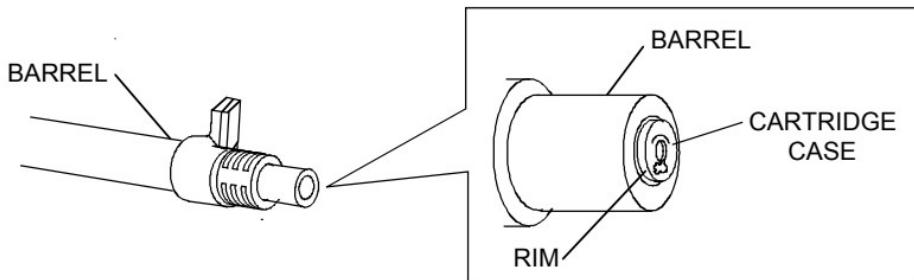
0016 00-1

**OPERATION UNDER USUAL CONDITIONS –
STUCK CARTRIDGE CASE OR LIVE ROUND (cont)**

0016 00

Push cocking handle assembly to forward locked position (all models except M240/M240C).

Wait until barrel is cool; remove barrel (WP 0021 00). Remove cartridge case from chamber of barrel, or pry rim (if case is tight).

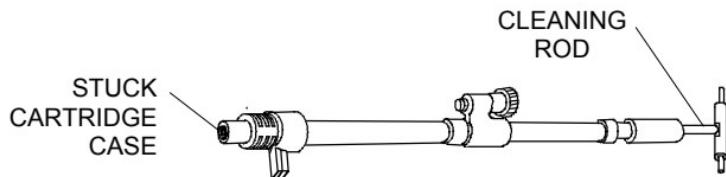


2AN0023

0016 00-2

ALTERNATIVE MEATHOD

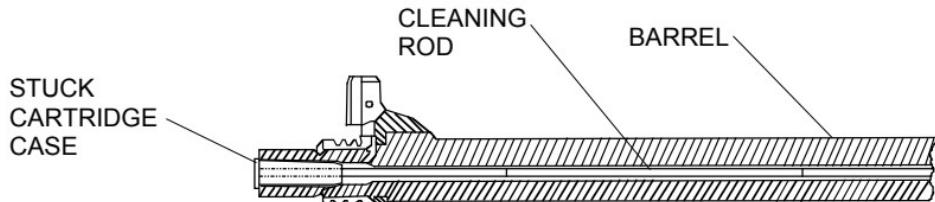
Remove swab holder section from cleaning rod and insert cleaning rod through muzzle end of barrel, gently tap out cartridge.



2AN0024

0016 00-3

Push end of cleaning rod against stuck case. Push cleaning rod to remove case with weapon in mounted position.



2AN0025

0016 00-4

**OPERATION UNDER USUAL CONDITIONS –
RUPTURED CARTRIDGE CASE**

0017 00

WARNING

Stay clear of muzzle. Do not allow round to hit any hard surface or it may fire. Dispose of live round(s) in accordance with local procedures.

Charge the weapon, and place safety on “S” safe.

Push cocking handle assembly to forward locked position (all models except M240/M240C).

Wait until barrel is cool; remove barrel (WP 0021 00).

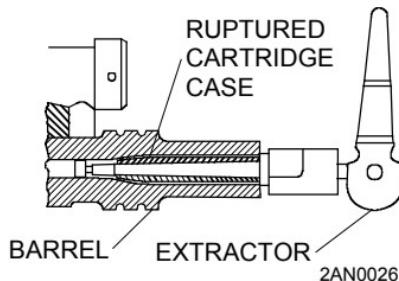
**OPERATION UNDER USUAL CONDITIONS –
RUPTURED CARTRIDGE CASE (cont)**

001700

NOTE

In the event a live round is fed into a ruptured case, remove live round first (WP 0016 00), then remove ruptured cartridge case.

Push threaded end of extractor post through ruptured case. Pull on handle to remove case.



0017 00-2

Under unusual conditions, clean and lubricate weapon more often.

HOT, DUSTY, AND SANDY AREAS. Clean often. Wipe oil from exposed surfaces with clean wiping rag (item 7, WP 0040 00). Cover weapon as much as possible to keep dust and sand out of parts.

HOT, WET CLIMATE. Inspect often. Dry, clean, and lubricate lightly as necessary.

EXTREMELY COLD CLIMATE. Keep free of moisture. Lightly oil with LAW (item 4, WP 0040 00).

AFTER EXPOSURE TO WATER. Disassemble, clean, oil and reassemble as soon as possible. Make sure it's dry.

NUCLEAR, BIOLOGICAL, AND CHEMICAL (NBC) ESCONTAMINATION. Decontamination procedures can be found in FM-3-5.

NOTE

Refer to WP 0025 00 for lubrication instructions.

CHAPTER 3

TROUBLESHOOTING PROCEDURES

GENERAL

This table lists the common malfunctions that you may find during the operation or maintenance of the machine gun or its components. You should perform the tests/inspections and corrective actions in the order listed.

This manual cannot list all the malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify unit maintenance.

NOTE

Troubleshooting procedures are written for one machine gun but apply to all models.

Table 1. Troubleshooting Procedures**SYMPTOM**

Fails to fire on initial burst.

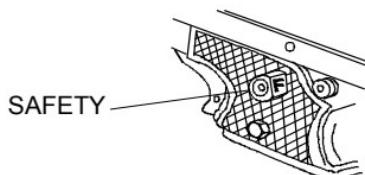
MALFUNCTION

Weapon not properly charged.

CORRECTIVE ACTION

Charge the weapon.

Safety is still in "S" safe position.



2AN0027

CORRECTIVE ACTION

Move safety to "F" fire.

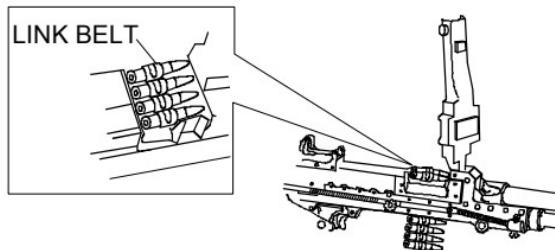
MALFUNCTION

Link belt is not properly loaded.

CORRECTIVE ACTION

Remove and reinstall link belt properly (WP 0009 00).

Ammunition is defective.



2AN0028

CORRECTIVE ACTION

Eject round.

0019 00-3

Change 1

Table 1. Troubleshooting Procedures (cont)**SYMPTOM**

Failure to feed.

MALFUNCTION

Improper lubrication.

CORRECTIVE ACTION

Lube as required (WP 0025 00).

Ammunition or links are defective.

CORRECTIVE ACTION

Remove defective ammunition/links. Install new ammunition/links.

Obstruction in receiver.

CORRECTIVE ACTION

Remove obstruction.

MALFUNCTION

Rounds in link belt misaligned or link belt inverted.

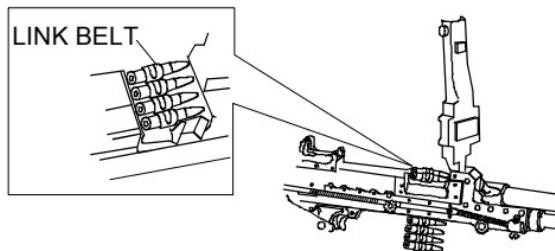
CORRECTIVE ACTION

Align round in link belt; reinstall link belt properly (WP 0009 00).

Cover is unlatched.

CORRECTIVE ACTION

Latch cover.



2AN0028

0019 00-5

Table 1. Troubleshooting Procedures (cont)**SYMPTOM (cont)**

Failure to feed.

MALFUNCTION

Cover assembly is damaged, or has weak, worn or missing parts.

CORRECTIVE ACTION

Notify unit maintenance.

SYMPTOM

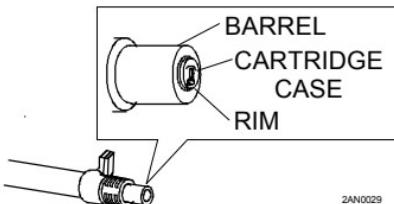
Weapon stops firing.

MALFUNCTION

Round in chamber is defective.

CORRECTIVE ACTION

Eject round.



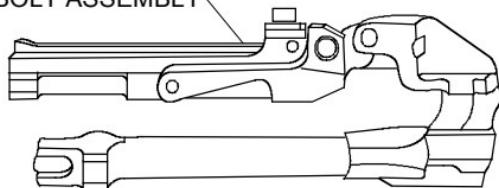
2AN0029

Bolt assembly is not fully forward and locked.

CORRECTIVE ACTION

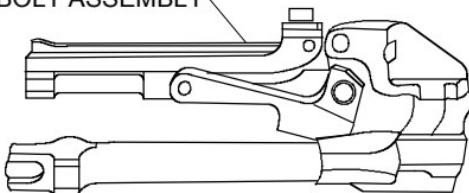
Remove obstructions; or clean (WP 0022 00) and lubricate (WP 0025 00) as required.

BOLT ASSEMBLY



UNLOCKED

BOLT ASSEMBLY



LOCKED

2AN0030

Unfired round with dented primer.

CORRECTIVE ACTION

Eject round. Notify unit maintenance.

0019 00-7

Table 1. Troubleshooting Procedures (cont)**SYMPTOM (cont)**

Weapon stops firing.

MALFUNCTION (cont)

Feed mechanism is sticking.

CORRECTIVE ACTION

Clean (WP 0022 00) and lubricate (WP 0025 00) feed mechanism. If problem still exist, notify unit maintenance.

Short recoil.

CORRECTIVE ACTION

Clean (WP 0022 00) and lubricate (WP 0025 00) bolt and operating rod assembly. If problem still exist, notify unit maintenance.

SYMPTOM

Sluggish operation.

MALFUNCTION

Receiver is dirty.

CORRECTIVE ACTION

Clean (WP 0022 00) and lubricate (WP 0025 00).

Insufficient lubrication.

CORRECTIVE ACTION

Lubricate (WP 0025 00).

Table 1. Troubleshooting Procedures (cont)**SYMPTOM**

Failure to chamber.

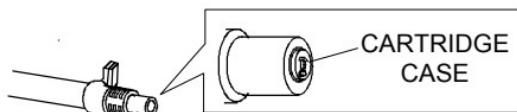
MALFUNCTION

Stuck or ruptured cartridge case.

CORRECTIVE ACTION

Remove cartridge (WP 0016 00/WP 0017 00).

Ammunition is dirty.



2AN0031

Stuck or ruptured cartridge case.

CORRECTIVE ACTION

Wipe ammunition off with a clean, dry rag (item 7, WP 0040 00).

Carbon build-up in receiver.

CORRECTIVE ACTION

Clean receiver as necessary (WP 0022 00).

Round is damaged.

CORRECTIVE ACTION

Remove round and recharge weapon.

Table 1. Troubleshooting Procedures (cont)**SYMPTOM (cont)**

Failure to chamber.

MALFUNCTION (cont)

Driving spring is damaged or weak.

CORRECTIVE ACTION

If two or more strands broken on the same coil, or three or more strands are broken in any location, notify unit maintenance.

DRIVING SPRING



2AN0032

Gas plug regulator is damaged.

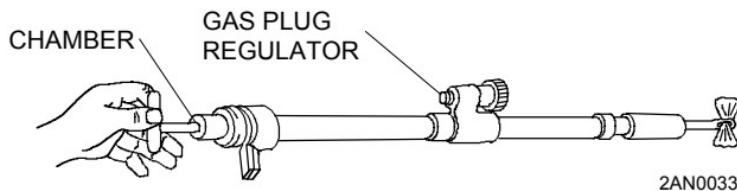
CORRECTIVE ACTION

Notify unit maintenance.

Dirt in chamber.

CORRECTIVE ACTION

Clean chamber (WP 0022 00).



0019 00-13

Table 1. Troubleshooting Procedures (cont)

SYMPTOM

Failure to fire.

MALFUNCTION

Ammunition is faulty.

CORRECTIVE ACTION

Replace ammunition.

Broken or damaged firing pin.

CORRECTIVE ACTION

Notify unit maintenance.

Driving spring is damaged or weak.

CORRECTIVE ACTION

If two or more strands broken on the same coil, or three or more strands are broken in any location, notify unit maintenance.

DRIVING SPRING



2AN0032

0019 00-15

Table 1. Troubleshooting Procedures (cont)**SYMPTOM)**

Failure to extract.

MALFUNCTION (cont)

Short recoil.

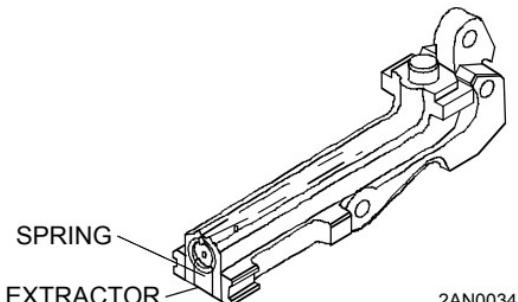
CORRECTIVE ACTION

Notify unit maintenance.

Damaged extractor/spring.

CORRECTIVE ACTION

Notify unit maintenance.



2AN0034

Dirty chamber or ammunition.

CORRECTIVE ACTION

Clean chamber (WP 0022 00), wipe ammunition off with clean, dry rag (item 7, WP 0040 00).

SYMPTOM

Failure to eject.

MALFUNCTION

Short recoil.

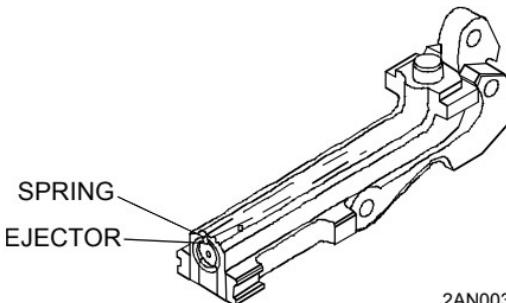
CORRECTIVE ACTION

Notify unit maintenance.

Damaged ejector/spring.

CORRECTIVE ACTION

Notify unit maintenance.



2AN0034

0019 00-17

Table 1. Troubleshooting Procedures (cont)**SYMPTOM (cont)**

Failure to eject.

MALFUNCTION (cont)

Spent case bag is full.

CORRECTIVE ACTION

Empty bag.

SYMPTOM

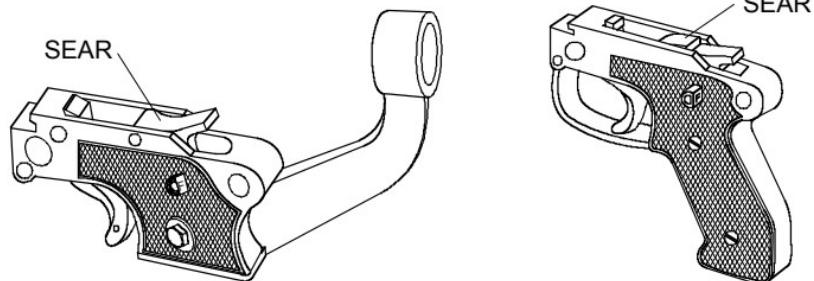
Failure to cock or runaway gun.

MALFUNCTION

Sear is broken, worn or burred.

CORRECTIVE ACTION

Notify unit maintenance.



2AN0035

Operating rod sear notch is worn.

CORRECTIVE ACTION

Notify unit maintenance.

0019 00-19

Table 1. Troubleshooting Procedures (cont)**SYMPTOM (cont)**

Failure to cock or runaway gun.

MALFUNCTION (cont)

Sear is stuck in housing.

CORRECTIVE ACTION

Notify unit maintenance.

Short recoil.

CORRECTIVE ACTION

Notify unit maintenance.

CHAPTER 4

MAINTENANCE PROCEDURES

PREVENTIVE MAINTENANCE CHECKS AND SERVICES

0020 00

Always keep in mind the **WARNINGS** and **CAUTIONS** before and during operation. Be sure to perform your after (A) PMCS.

Perform BEFORE PMCS if:

- You are the assigned operator and the machine gun has been stored and not used for a period of 90 days.
- You have been issued the machine gun for the first time.
- Prior to each firing exercise.



BEFORE (B)- Checks and services performed prior to the equipment leaving its containment area or performing its intended mission.

DURING (D) – Checks begin when the equipment is being used in its intended mission.

AFTER (A) – Checks and services begin when the equipment is taken out of its mission mode or returned to its containment area.

0020 00-1

Change 1

**PREVENTIVE MAINTENANCE CHECKS
AND SErvices (cont)**

0020 00

Your PMCS table lists inspections and care required to keep your machine gun in good operating condition.

The interval column tells you when and the procedure column tells you how to do a certain check or service. The equipment condition listed in "NOT FULLY MISSION CAPABABLE IF" column indicates problems which must be corrected before you can operate the machine gun. The terms "ready/available" and "mission capable" refer to the same status: equipment is on hand and is able to perform its combat missions (see DA PAM 738-750).

If your machine gun does not perform as required, refer to Troubleshooting (WP 0019 00) for possible malfunctions and corrective actions. Report malfunctions on proper DA Form 2404 or refer to DA PAM 738-750.

Table 1. Preventive Maintenance Checks and Services

| Item No. | Interval | Item to be Checked/ Serviced | Procedure | Not Fully Mission Capable If: |
|----------|----------|---------------------------------|-----------|-------------------------------|
|----------|----------|---------------------------------|-----------|-------------------------------|

WARNING

Be sure to clear weapon before disassembling, clearing, inspecting, transporting, or storing.

Do not interchange barrel assembly or bolt assembly from one machine gun to another without being headspaced/gaged. Doing so may result in injury to, or death of, personnel.

Ensure that assigned/spare barrels have been headspaced and tagged to your receiver. Rotate usage of the barrels as specified in WP 0007 00.

NOTE

Barrel changes are required with all types of authorized ammunition, to include blanks (WP 0007 00).

**PREVENTIVE MAINTENANCE CHECKS
AND SErvices (cont)**

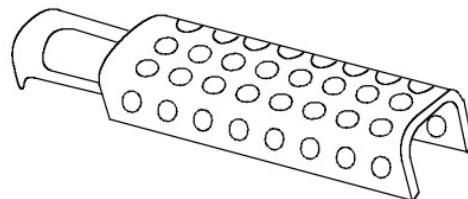
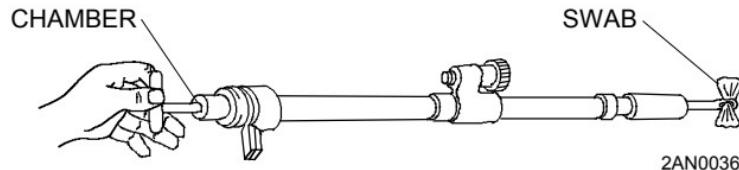
0020 00

Table 1. Preventive Maintenance Checks and Services (cont)

| Item No. | Interval | Item to be Checked/ Serviced | Procedure | Not Fully Mission Capable If: |
|----------|----------|---------------------------------|--|---|
| 1 | B/A | Barrel Assembly | Remove barrel (WP 0021 00) and check bore and chamber. Using cleaning rod and swab (item 8, WP 0039 00), remove oil, foreign material, or obstructions. Install and lock barrel securely in receiver (WP 0023 00). (Spare barrel must also be checked and cleaned before use.) Inspect heat shield for cracks (M240B). Ensure gas regulator is not burnt out or plugged with carbon. | Obstruction in barrel cannot be removed or barrel will not lock securely in receiver (WP 0023 00). Heat shield missing or broken so as to allow contact with metal (M240B. Gas regulator plug hole(s) is oblong/enlarged. |

0020 00-4

Change 1



2AN0118

0020 00-5 Change 1

**PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (cont)**

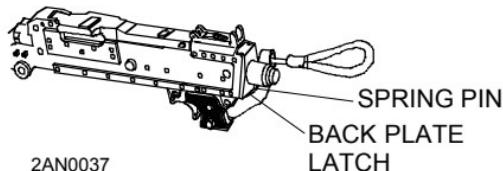
0020 00

Table 1. Preventive Maintenance Checks and Services (cont)

| Item No. | Interval | Item to be Checked/ Serviced | Procedure | Not Fully Mission Capable If: |
|----------|----------|---------------------------------|---------------------------------------|--|
| 2 | B | Buffer Assembly | Make sure back plate latch is locked. | Latch will not hold buffer assembly in receiver. |

NOTE

Ensure spring pin is in place.



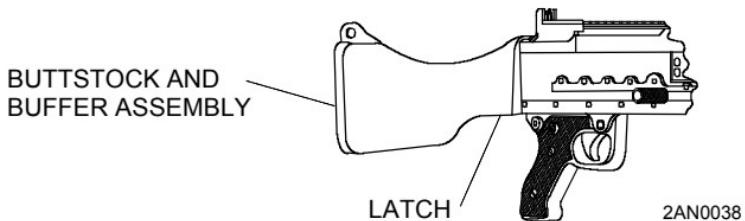
0020 00-6

| Item No. | Interval | Item to be Checked/ Serviced | Procedure | Not Fully Mission Capable If: |
|----------|----------|---------------------------------|-----------|-------------------------------|
|----------|----------|---------------------------------|-----------|-------------------------------|

NOTE

Do not apply lubricants to composition/rubber components.

| | | | | |
|---|---|---|---|---|
| 3 | B | Buttstock and Buffer Assembly (M240B/ M240G/ M240N) | Make sure back plate latch is locked. Make sure buttstock is not loose. Externally inspect the buttstock for cracks. The buttstock may be cleaned with a brush and soapy water, rinsed, and wiped dry with a clean rag. | Latch will not hold buttstock assembly in receiver. Buttstock is cracked or loose. |
|---|---|---|---|---|



2AN0038

0020 00-7

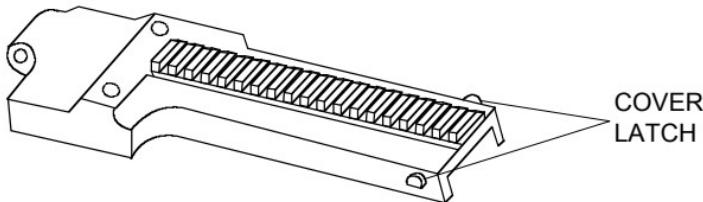
Change 1

**PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (cont)**

0020 00

Table 1. Preventive Maintenance Checks and Services (cont)

| Item No. | Interval | Item to be Checked/ Serviced | Procedure | Not Fully Mission capable if: |
|----------|----------|------------------------------|---|---|
| 4 | B | Cover Assembly | Squeeze cover latches and raise cover. Let go of latches and close cover. Make sure latches hold cover shut. Inspect accessory mounting rail for nicks and burrs (all models except M240C). | Latches fail to hold cover shut. Accessory rail will not accept optional sighting devices (all except M240C). |



2AN0039

0020 00-8

Change 1

| Item No. | Interval | Item to be Checked/ Serviced | Procedure | Not Fully Mission Capable If: |
|----------|----------|---------------------------------|-----------|-------------------------------|
|----------|----------|---------------------------------|-----------|-------------------------------|

NOTE

The charger cable is on the M240/M240C models only. All other models have a cocking handle assembly.

Weapon should not be on "S" safe without bolt assembly locked fully to the rear.

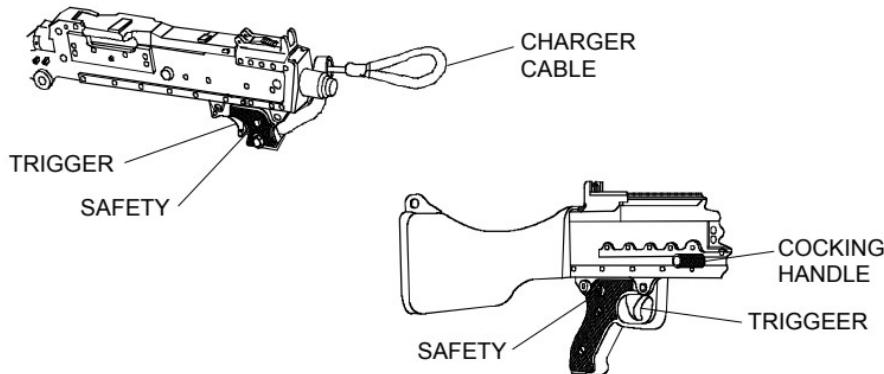
| | | | | |
|---|---|---|---|--|
| 5 | B | Charger Cable, Safety, and Bolt Assembly | Pull charger cable/cocking handle assembly to the rear (return and lock in forward position) make sure bolt assembly moves freely without binding and locks to the rear. Place safety to "S" safe and pull trigger. Bolt assembly should not move forward. Place safety to "F" fire. Keep hold of charger cable and pull trigger. | |
|---|---|---|---|--|

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (cont)

0020 00

Table 1. Preventive Maintenance Checks and Services (cont)

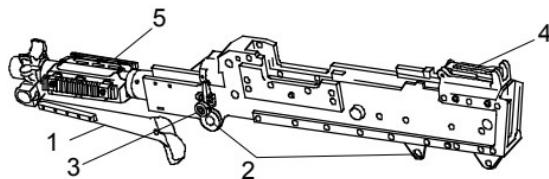
| Item No. | Interval | Item to be Checked/ Serviced | Procedure | Not Fully Mission Capable If: |
|-------------|----------|---------------------------------|--|-------------------------------|
| 5 (cont) | | | Let bolt assembly return to forward position slowly. | |



2AN0040

0020 00-10

| Item No. | Interval | Item to be Checked/ Serviced | Procedure | Not Fully Mission Capable If: |
|----------|----------|---|---|---|
| 6 | B/A | Receiver Assembly (models as specified) | <p>Inspect mounting points (2). Check barrel locking latch (3) for spring tension and locking action (all models). Externally inspect the appearance and operation of the bipod (1) (M240B/M240G/M240H). Check the rear sight (4), the slide assembly catches, and that the elevation markings are readable (all models except M240/M240C).</p> | <p>Any parts are broken, missing, or damaged to the extent it could cause gun to malfunction.</p> |



2AN0041

**PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (cont)**

0020 00

Table 1. Preventive Maintenance Checks and Services (cont)

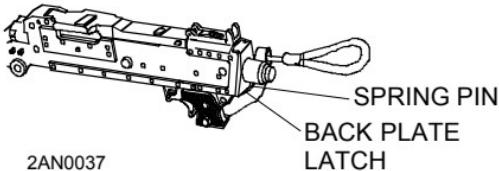
| Item No. | Interval | Item to be Checked/ Serviced | Procedure | Not Fully Mission Capable If: |
|-------------|----------|---------------------------------|--|--|
| 6 (cont) | | | Check forward rail assembly (5) for nicks and burrs; movement on receiver (M240B/M240H). | Rails will not accept optional devices; rail assembly moves on receiver. |

NOTE

If gas regulator has to be set to setting #2 or #3 to increase firing rate, take corrective action and return weapon to primary setting #1 (WP 0008 00) readable (all models except M240B/M240H).

M240B/M240H has a single port gas plug (Army only).

| | | | | |
|---|---|--|--|---|
| 7 | D | Machine Gun (firing cycle) | Note machine gun firing rate. If firing cycle slows down, clean and oil machine gun. Notify unit maintenance as soon as possible if machine gun does not function properly. | If rate of fire can not be increased by cleaning; during firing, notify unit maintenance. |
| 8 | D | Buffer Assembly/ Buffer and Spade Grip Assembly/ Buttstock and Buffer Assembly | If plug becomes loose on buffer assembly (M240/M240C/M240D/M240E1/M240H) or the buttstock appears loose (M240B/M240G/M240N), machine gun needs to be returned to unit maintenance to ensure proper assembly. | Plug is loose on buffer; or buttstock appears loose. |



0020 00-13 Change 1

**PREVENTIVE MAINTENANCE CHECKS
AND SERVICES (cont)**

0020 00

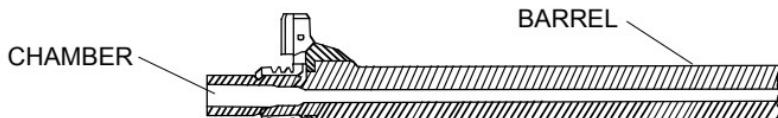
Table 1. Preventive Maintenance Checks and Services (cont)

| Item No. | Interval | Item to be Checked/ Serviced | Procedure | Not Fully Mission Capable If: |
|----------|----------|------------------------------|-----------|-------------------------------|
|----------|----------|------------------------------|-----------|-------------------------------|

WARNING

Be sure to clear weapon before disassembling, clearing, inspecting, transporting, or storing.

| | | | | |
|---|---|-------------------|---|--|
| 9 | A | Barrel Assemblies | Check chamber and bore for obstructions. Remove heat shield to allow cleaning and lubrication of barrel assembly (M240B (WP 0021 00)). | |
|---|---|-------------------|---|--|



2AN0042

0020 00-14

Change 1

| | | | | |
|----|---|--------------------------|---|---|
| 10 | A | Machine Gun (all models) | Disassemble, clean, inspect, lubricate, and reassemble machine gun (WP 0021 00 through WP 0023 00). | Any part is broken, missing, or damaged to the extent that it could cause gun to malfunction. |
|----|---|--------------------------|---|---|

0020 00-15/16 blank

MAINTENANCE PROCEDURES – FIELD STRIPPING

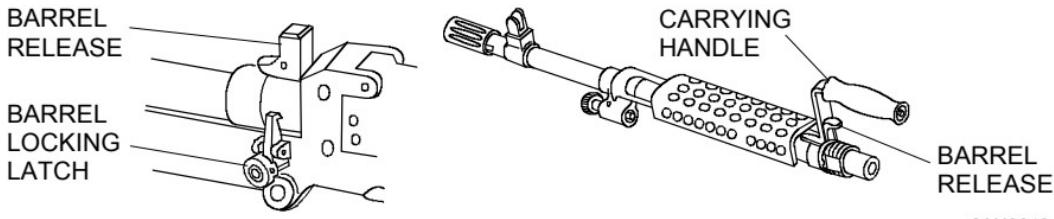
0021 00

Clear your machine gun. (WP 0010 00)*.

Depress barrel locking latch and hold.

Turn barrel release/carrying handle to upright position.

Remove barrel. Push forward and lift out barrel.



2AN0043

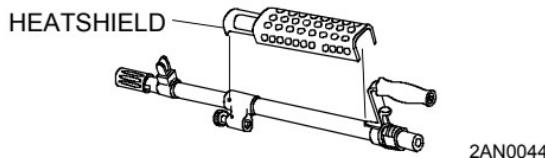
*To change barrels follow these four steps.

0021 00-1

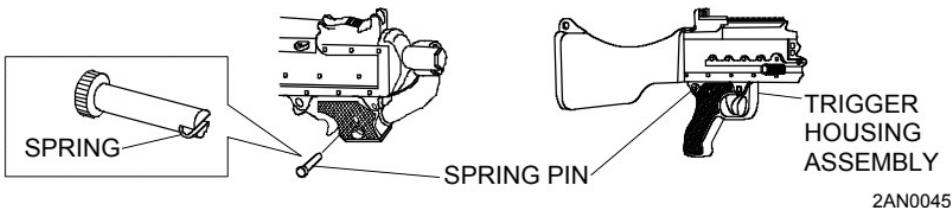
MAINTENANCE PROCEDURES – FIELD STRIPPING (cont)

0021 00

M240B/M240H: Remove heat shield assembly from barrel. Lift rear of heat shield assembly off barrel then pry front tabs out of holes on gas hole bushing.



Depress spring and remove spring pin. (This can usually be done without tools).



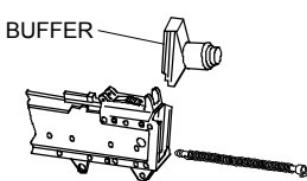
0021 00-2

Change 1

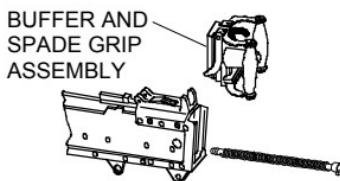
Pull trigger housing down and back. Pull charge cable through cable guide (M240/M240C).

Depress back plate latch and lift buffer/buttstock and buffer assembly/buffer and spade grip assembly straight up.

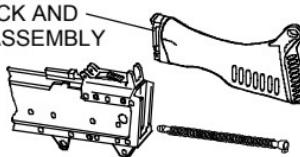
Depress driving spring in; up; and out.



M240/M240C



M240D/M240E/M240H



M240B (HYDRAULIC BUFFER)/
M240G/M240N

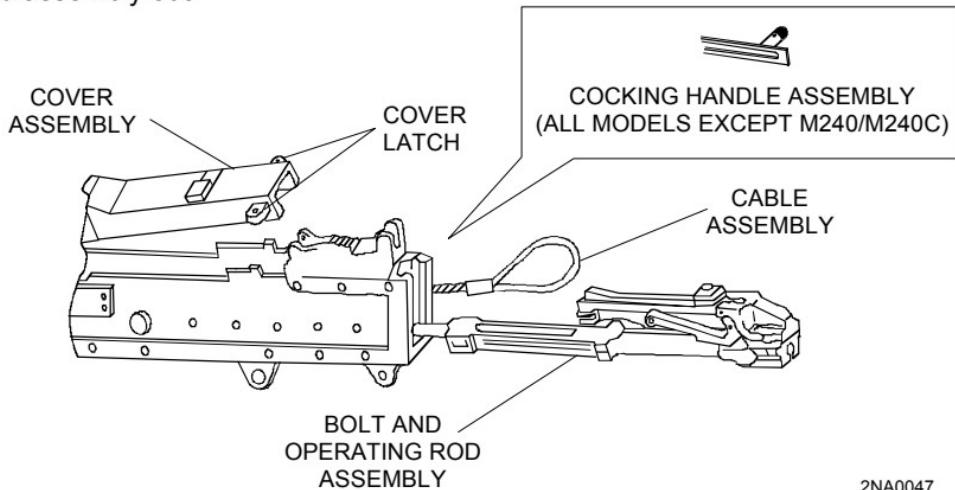
2AN0046

0021 00-3

MAINTENANCE PROCEDURES – FIELD STRIPPING (cont)

0021 00

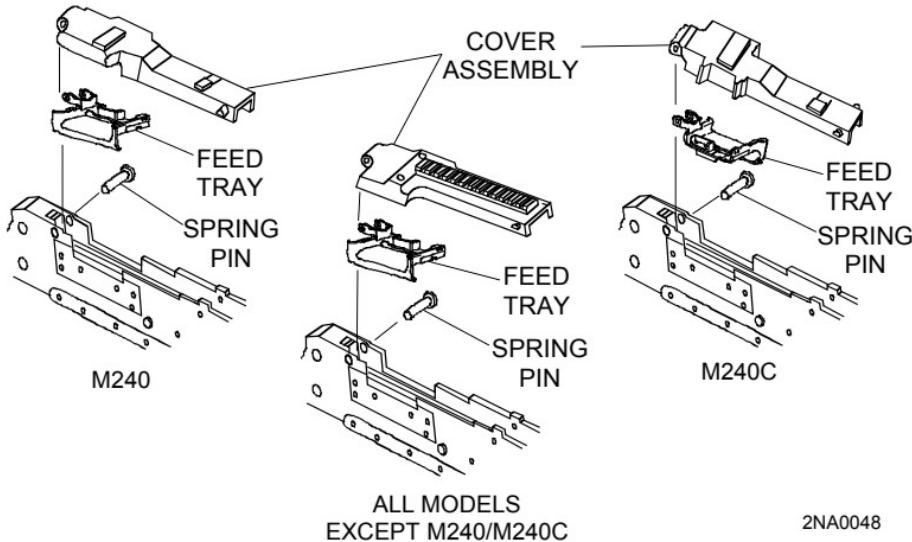
Depress cover latches and raise cover assembly. Pull cocking handle assembly, or charging handle assembly (M240/M240C) back; then pull bolt and operating rod assembly out.



2NA0047

0021 00-4

Close cover. Push out spring pin as far as possible with the back or buffer. Then remove pin with fingers. Depress cover latches, lift upward and remove cover assembly. Remove feed tray.

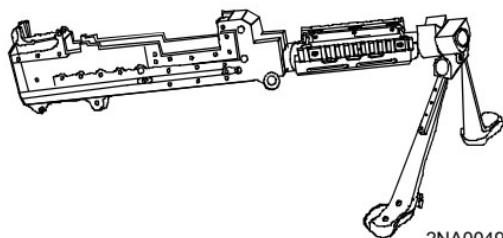


0021 00-5

**MAINTENANCE PROCEDURES –
FIELD STRIPPING (cont)**

0021 00

M240B/M240G: Extend bipod legs to down and locked position.



END OF WORK PACKAGE

0021 00-6

WARNING

Be sure to clear weapon before disassembling, cleaning, inspecting, transporting, or storing

Using gasoline, kerosene, hydraulic oil, benzene, bensol, high-pressure water, steam, or air for cleaning is prohibited.

CAUTION

Do not use abrasives to clean the bore, piston, gas cylinder, or gas regulator plug.

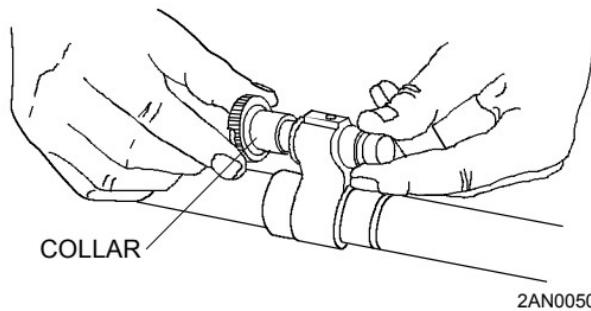
Do not submerge the buffer in any liquid. Wipe with clean wiping rag only.

Do not allow cleaning solvents to come in contact with the rubber handle of the charger cable (M240/M240C).

Do not apply lubricants to composite/rubber components.

BARREL ASSEMBLY

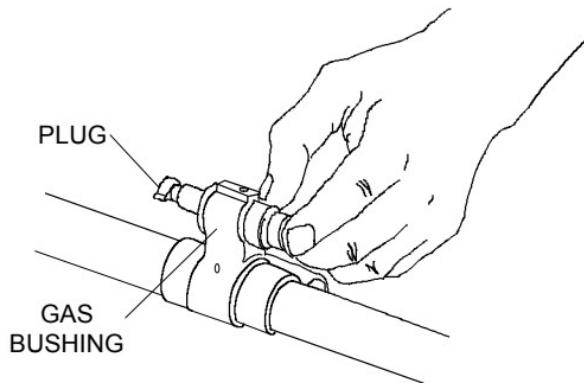
Press in and rotate collar counterclockwise until it releases, then pull it out.



NOTE

If the plug cannot be removed by hand from the gas regulator, send the gun to unit maintenance for removal.

Pull gas regulator plug from gas hole bushing.



2AN0051

0022 00-3

BARREL ASSEMBLY (cont)

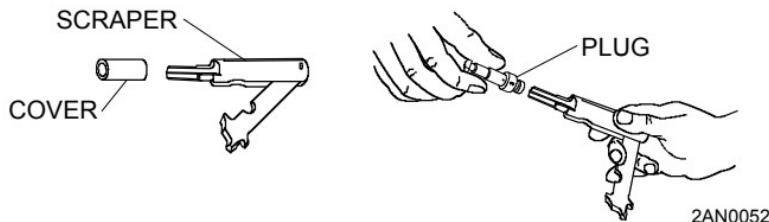
USING SCRAPER TO REMOVE CARBON

WARNING

Use care when removing excess carbon, carbon may chip off and fly into eyes.

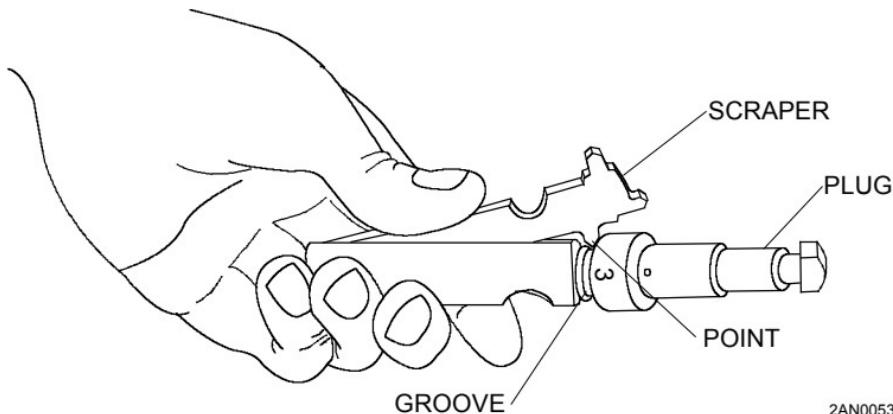
Remove cover from scraper.

Insert scraper into center hole of gas regulator plug. Twist scraper clockwise to remove carbon from center hole until scraper is fully seated against gas regulator plug.



2AN0052

Fold scraper and press point into groove. Turn gas regulator plug clockwise to remove carbon from groove on gas regulator plug.



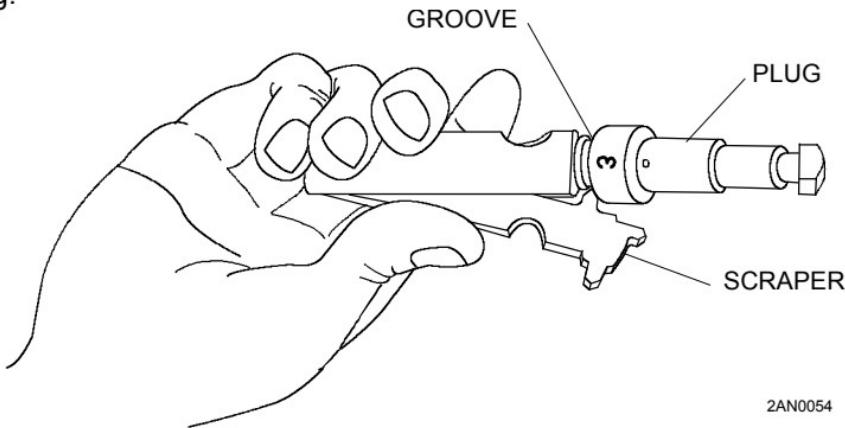
2AN0053

0022 00-5

BARREL ASSEMBLY (cont)

USING SCRAPER TO REMOVE CARBON (cont)

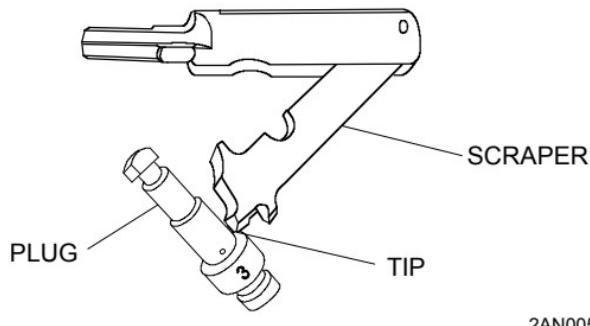
Pivot scraper blade 180° to opposite side and place groove tip of scraper into groove of gas regulator plug and turn clockwise to remove carbon from groove on plug.



2AN0054

0022 00-6

With tip of scraper, scrape carbon from surface of gas regulator plug.



2AN0055

0022 00-7

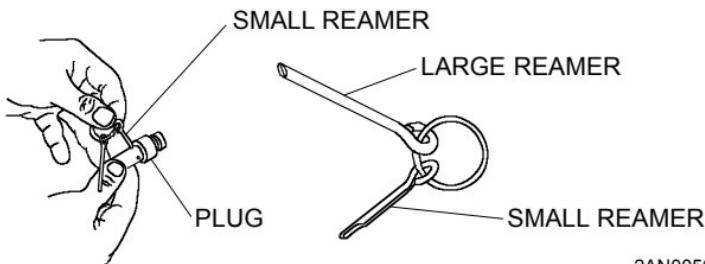
BARREL ASSEMBLY (cont)

USING REAMER TO REMOVE CARBON

NOTE

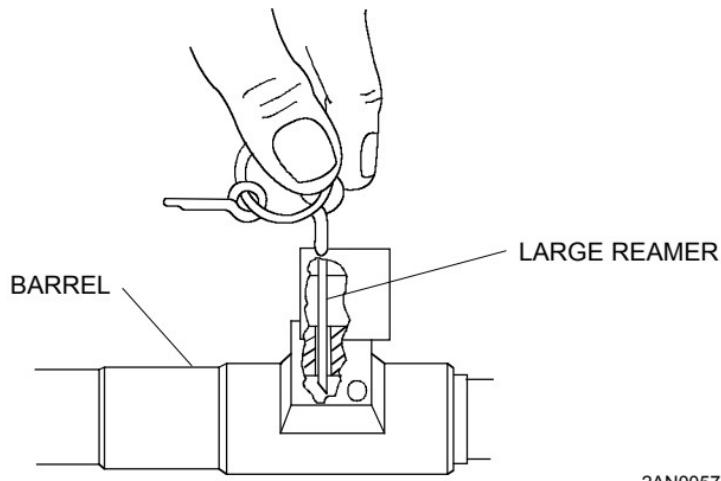
When using reamers, apply hand pressure only.

Insert small reamer into each gas inlet hole of gas regulator plug and twist back and forth to remove the carbon.



2AN0056

Insert large reamer through hole in gas port bushing into gas port hole in barrel; twist back and forth until reamer enters bore of barrel to remove carbon.

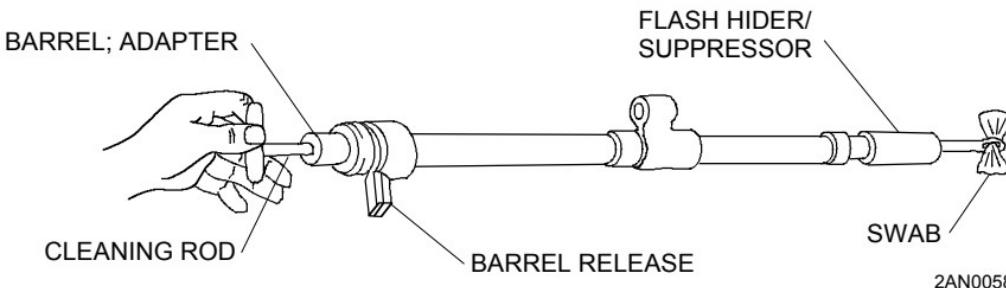


2AN0057

0022 00-9

BARREL ASSEMBLY (cont)

Remove dirt and corrosion from bore using cleaning rod and swab (item 8, WP 0040 00), dampeden with CLP (item 1, WP 0040 00). Remove dirt and corrosion from other parts using wiping rag, (item 7, WP 0040 00) dampened with CLP (item 1, WP 0040 00) or RBC (item 3, WP 0040 00). Lightly lubricate with CLP (item 1, WP 0040 00), LAW (item 4, WP 0040 00), LSA (item 6, WP 0040 00), or LSA-T (item 5, WP 0040 00 (Marine Corp only)).



Inspect for cracks, dents, burrs, or other damage on flash hider/suppressor, barrel adapter, carrying handle, barrel release and front sight.

NOTE

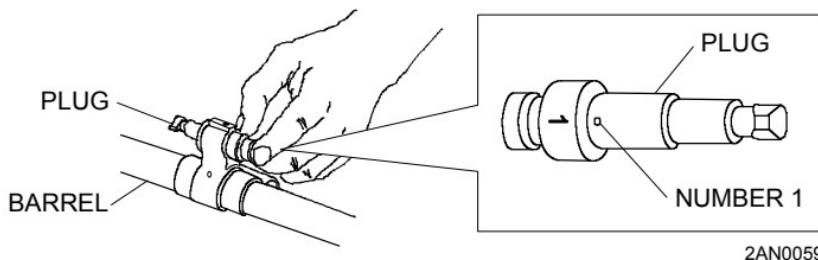
Primary setting for gas plug is setting #1 (refer to WP 0008 00).

M240B/M240H has single port gas plug (Army only). ■

This design is intended to maintain a consistent rate of fire under adverse conditions and is not to increase the rate of fire. Gas inlet setting #1 is the preferred setting for normal conditions. If gas regulator plug has been set to setting #2 or #3 to increase firing rate, take corrective action and return to primary setting #1 (WP 0008 00).

BARREL ASSEMBLY (cont)

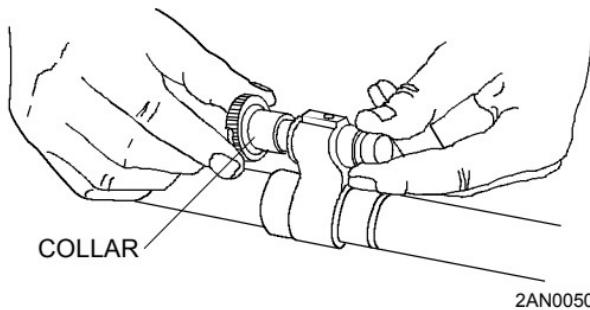
Place gas regulator plug with gas inlet setting #1 hole facing the barrel.



2AN0059

0022 00-12

Install collar on gas regulator plug. Rotate collar until it slips onto gas regulator plug. Press in and rotate to lock in place (pull collar to be sure it is in the locked position).

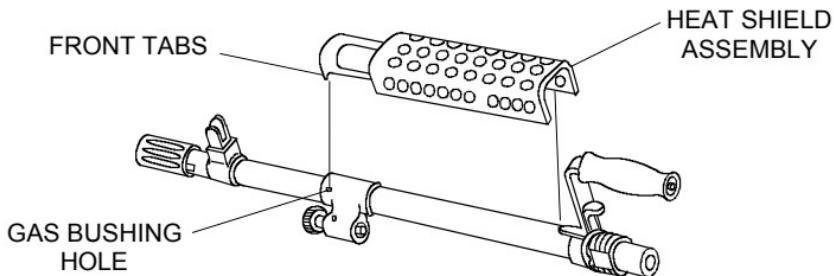


0022 00-13

**MAINTENANCE PROCEDURES –
CLEANING INSPECTION, AND REPAIR (cont)**

0022 00

M240B: Install heat shield on barrel. Make sure front tabs snap into hole on gas hole bushing, then push down onto barrel.



2AN0060

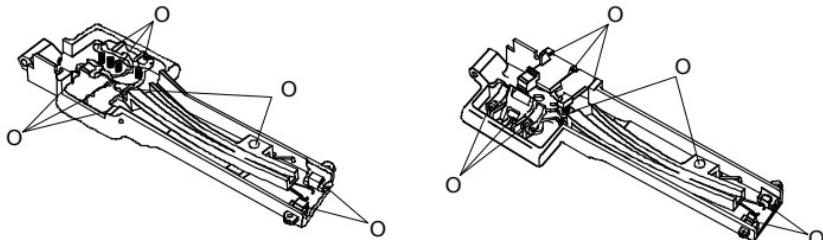
0022 00-14

COVER ASSEMBLY

CAUTION

Do not use brushes when cleaning cover assembly, use clean rag only.

Check cover assembly for smooth operation, spring tension, bent, or missing parts, or excessive wear.



O - LIGHTLY LUBE MOVING PARTS

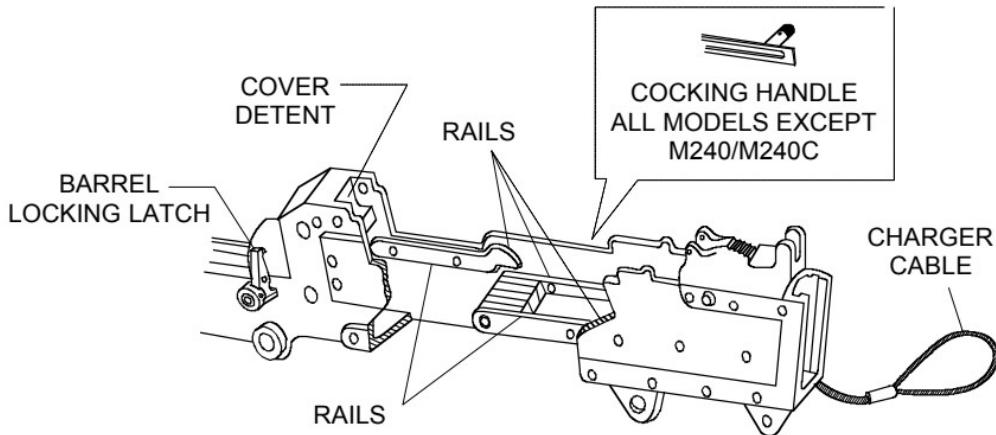
2NA0061

0022 00-15

MAINTENANCE PROCEDURES – CLEANING INSPECTION, AND REPAIR (cont)

0022 00

Check accessory mounting rail (if present) for nicks or burrs, which will prevent proper attachment of optional sighting devices.



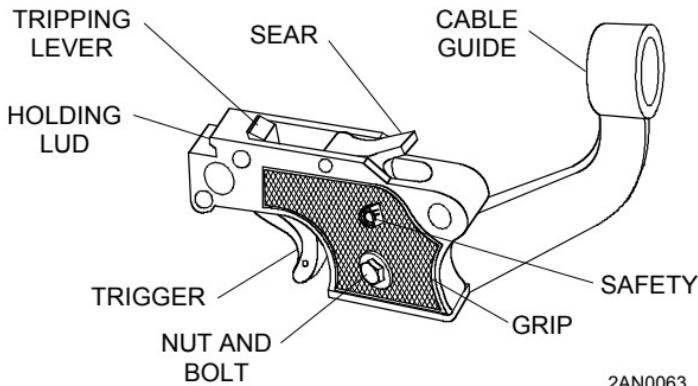
2AN0062

0022 00-16

Check for bends, cracks, and free movement of cocking handle assembly or charger cable assembly (M240/M240C), and excessively worn, burred, or chipped rails. Check barrel locking latch and cover detent for proper spring tension.

TRIGGER ASSEMBLY

M240/M240C: Check for broken grips, bent cable guide, loose nut and bolt, and chipped or cracked trigger housing holding lug.



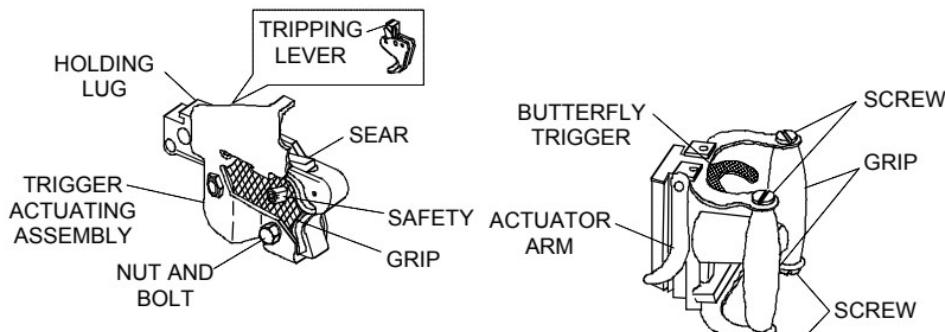
2AN0063

0022 00-17

MAINTENANCE PROCEDURES – CLEANING INSPECTION, AND REPAIR (cont)

0022 00

M240D/M240E1/M240H: Check for broken grips, and chipped or cracked trigger housing holding lug. Check for bent, cracked or broken trigger actuating assembly, butterfly trigger or actuating arm. Check for loose or missing nut, bolt and screws.

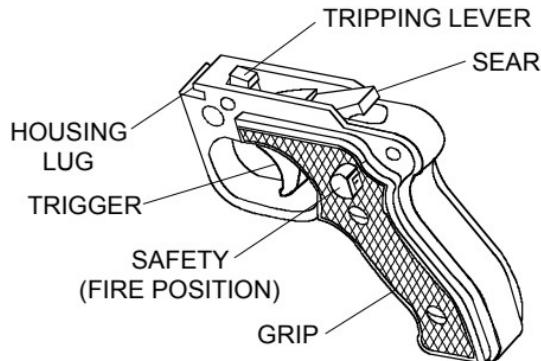


2AN0064

0022 00-18 Change 1

TRIGGER ASSEMBLY

M240B/M240G/M240N: Check for broken grips, and chipped or cracked trigger housing lug. Ensure trigger guard does not interfere with full operation of trigger.



2AN0065

0022 00-19

**MAINTENANCE PROCEDURES –
CLEANING INSPECTION, AND REPAIR (cont)**

0022 00

Check tripping lever and sear for burrs, cracks, and wear.

Notify unit maintenance if problems exist.

NOTE

To place safety to "S" safe, the sear must be up.

Check cocking action by pushing back on tripping lever (sear will raise). Pull trigger (sear will lower).

Check safety functions. When safety in placed to "S" safe, pull trigger (sear will not lower). When safety is placed to "F" fire, pull trigger (sear will lower).

Lightly lubricate tripping lever and sear surfaces.

OPERATING ROD

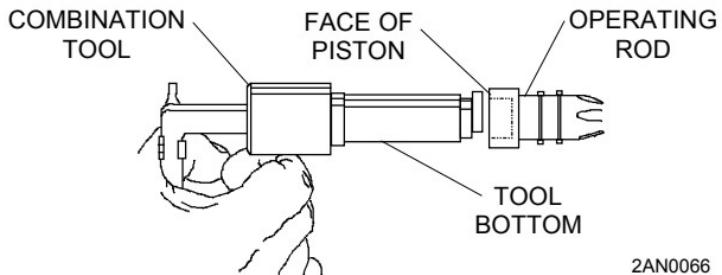
USING COMBINATION TOOL TO CLEAN CARBON FROM PISTOL HEAD CAVITY

CAUTION

Do not use abrasives to clean the operating rod piston.

Be sure tool bottom is securely against face of piston.

Insert combination tool into bottom of cavity of piston end of operating rod. Squeeze handles firmly and twist combination tool clockwise to remove carbon.



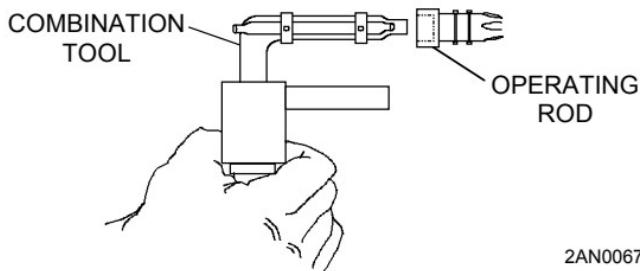
2AN0066

0022 00-21

USING COMBINATION TOOL TO CLEAN CARBON FROM PISTOL HEAD CAVITY (cont)

Insert screwdriver end of combination tool into cavity of piston end of operating rod to remove carbon residue in bottom of cavity.

Clean all other areas of operating rod, firing pin, and spring pin, with wiping rig (item 7, WP 0040 00) damped with CLP (item 4, WP 0040 00). Lightly lubricate after cleaning.



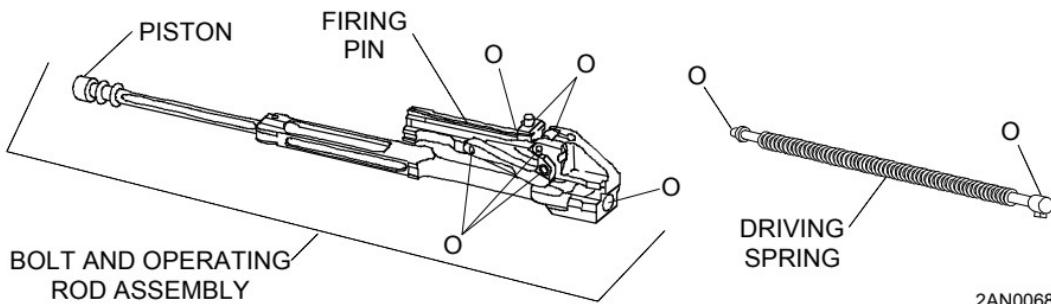
2AN0067

Check bolt and operating rod assembly for burrs, cracks, broken pins, or frozen roller. Push down on roller to make sure it will retract. Check driving spring for broken strands. If two or more strands are broken on the same coil or three or more strands in any location, notify unit maintenance.

NOTE

Do not lubricate face of bolt. Do not lubricate piston.

O – Lightly lubricate driving spring. Lightly lubricate bolt and operating rod assembly moving parts, polished areas, firing pin, and roller.



0022 00-23

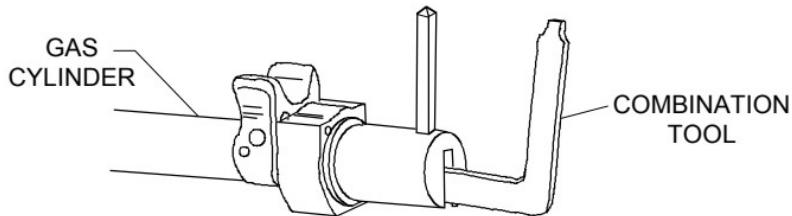
RECEIVER

**USING COMBINATION TOOL TO CLEAN GAS CYLINDER END OF
RECEIVER BODY**

CAUTION

Do not use an abrasive to clean gas cylinder end of receiver.

Insert combination tool with handle upward carefully into the forward end of the gas cylinder of the receiver body.



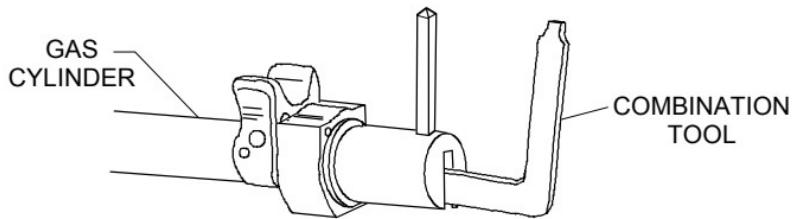
2AN0069

CAUTION

If combination tool is not properly seated, it could cause damage to smaller diameter of gas cylinder.

Be sure the combination tool shoulder is fully inserted and seated against the forward end of gas cylinder in receiver body.

Apply slight pressure to handles and turn combination tool clockwise to remove carbon.

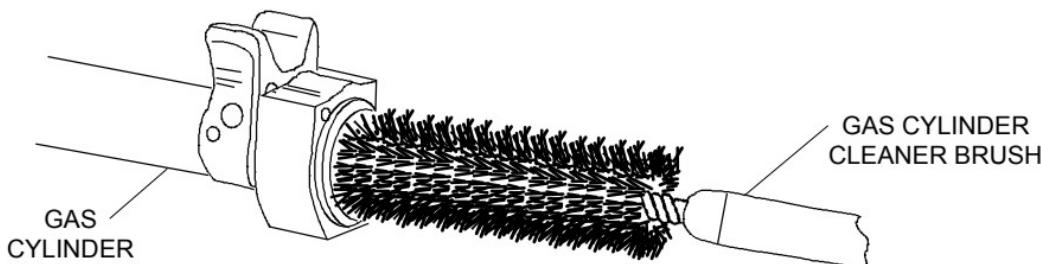


2AN0069

0022 00-25

RECEIVER (cont)

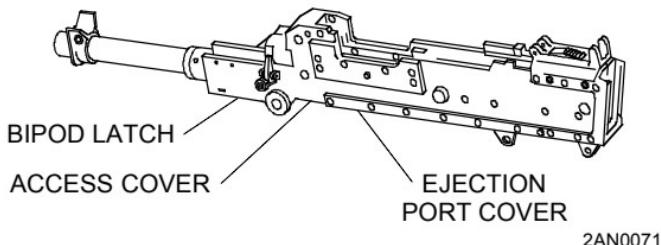
Clean gas cylinder bore with gas cylinder cleaning brush dampened with CLP (item 1, WP 0040 00) or RBC (item 3, WP 0040 00).



2AN0070

With wiping rag (item 7, WP 0039 00) dampened with CLP (item 1, WP 0040 00) or RBC (item 3, WP 0040 00), remove dirt and corrosion from area under front access cover of receiver and all other parts and areas.

- Ensure proper operation of ejection port cover (M240B/M240H/M240N) and bipod latch (M240B/M240G).



END OF WORK PACKAGE

0022 00-27/28 blank Change 1

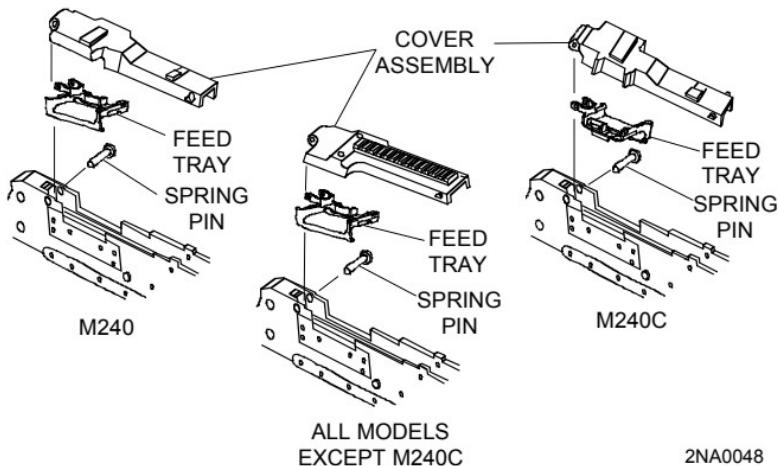
MAINTENANCE PROCEDURES – REASSEMBLY

0023 00

Position feed tray and cover assembly on receiver; push cover assembly forward; close cover and insert spring pin.

NOTE

Insert spring pin from right side.



2NA0048

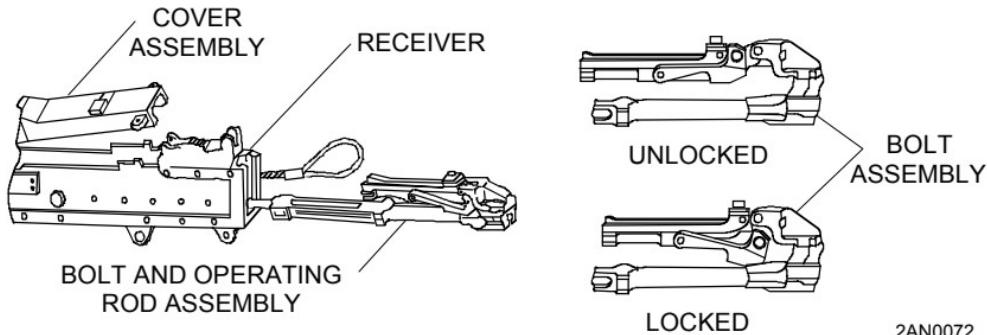
0023 00-1

Change 1

MAINTENANCE PROCEDURES – REASSEMBLY (cont)

0023 00

Open top cover assembly. Set bolt and operating rod assembly on top of rails (inside receiver). Extend bolt to unlocked position; push the assembly all the way into the receiver. Close cover assembly and lock.



2AN0072

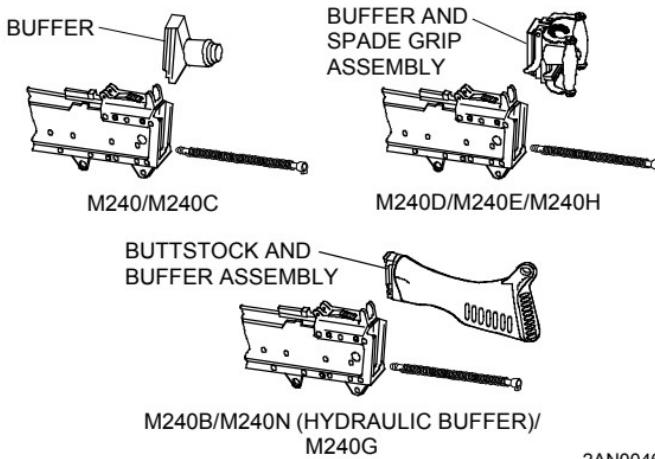
Insert driving spring into operating rod assembly. Push it in fully and lower it to seat the stud in hole of receiver.

0023 00-2

NOTE

Be sure operating rod assembly is properly seated in receiver before operating weapon. Top of buffer/buffer and spade grip/buttstock should be flush with top of receiver.

Install buffer assembly/buffer or spade grip assembly/buttstock and buffer assembly and make sure it latches.



2AN0046

0023 00-3

Change 1

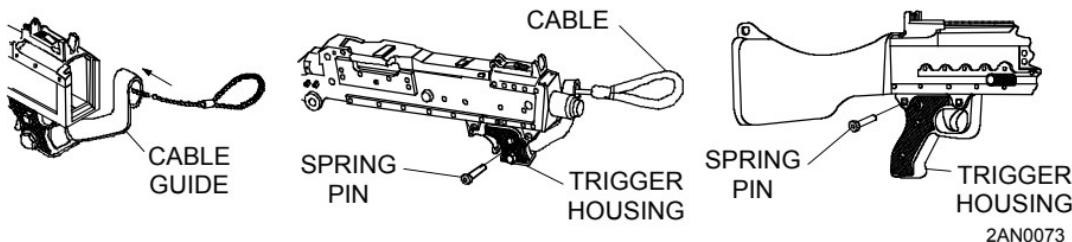
NOTE

Charger cable is on the M240/M240C models only.

Pin can be inserted from either side. For M240B/M240G/M240H/
M240N insert from right side only.

Place safety in fire position; position front of housing assembly into place and
pivot into position.

Slide charger cable (M240/M240C) through cable guide and position trigger
housing assembly into place. Insert spring pin.



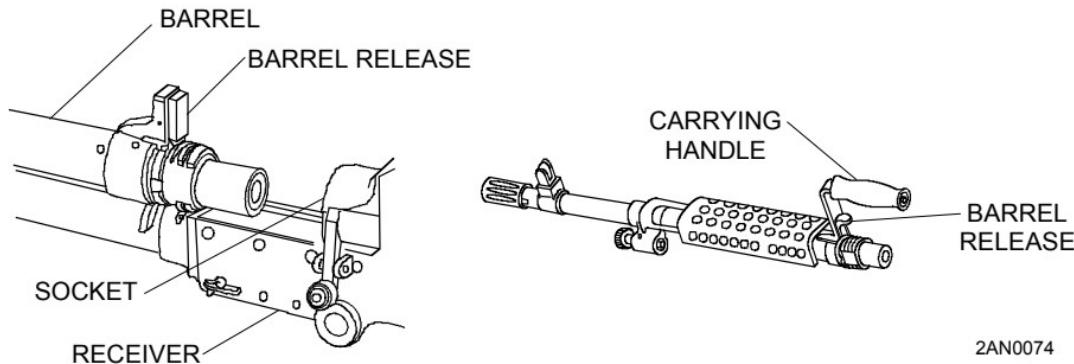
WARNING

Before firing, make sure the barrel is locked tightly in receiver. If the barrel is not locked tight, threads in receiver could be damaged or cause personal injury.

NOTE

Barrel must be in upright position when installing barrel.

Insert barrel fully into socket and push barrel release/barrel carrying handle clockwise as far as it will go.



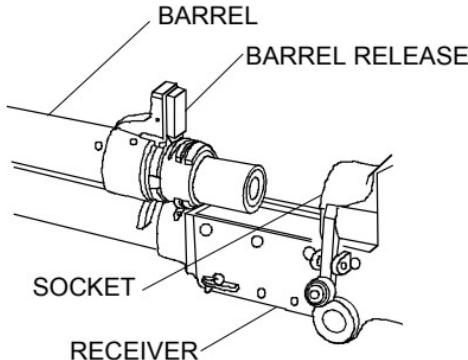
2AN0074

0023 00-5

**MAINTENANCE PROCEDURES –
REASSEMBLY (cont)**

0023 00

Release barrel release/barrel carrying handle and return to upright position. Push barrel release/barrel carrying handle clockwise while counting the clicks (fewer than 2 or more than 7 clicks indicate defective parts) to lock. If barrel binds in socket or if barrel release/barrel carrying handle will not rotate when pushed, do not pound on barrel release/barrel carrying handle. Take machine gun to unit maintenance.



2AN0074

END OF WORK PACKAGE

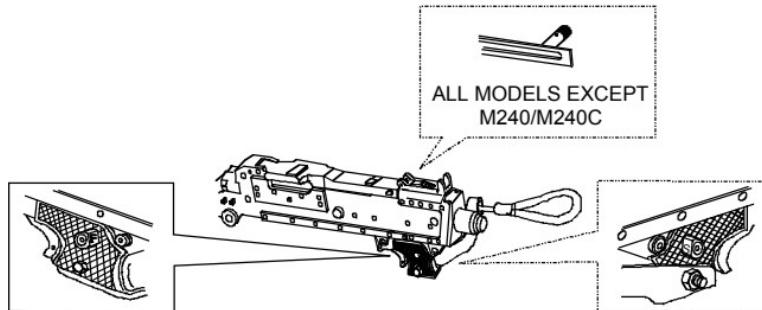
0023 00-7/8 blank

MAINTENANCE PROCEDURES – SAFETY/FUNCTION CHECK

0024 00

Place safety to “F” fire. Pull cocking handle (charger cable (M240/MM240C)) to rear to lock bolt back. Return cocking handle to forward, locked position.

Place safety to “S” safe position, depress trigger, nothing should happen.



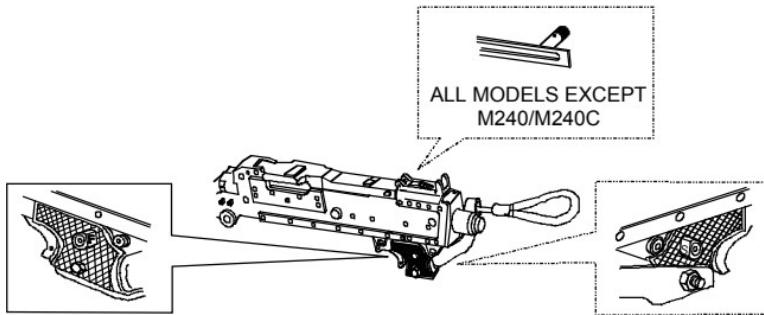
2AN0015

0024 00-1

MAINTENANCE PROCEDURES – SAFETY/FUNCTION CHECK (cont)

0024 00

Place safety to “F” fire. Hold cocking handle assembly (charger cable (M240/M240C)) to rear, depress trigger, and ease bolt forward to close and lock.



2AN0015

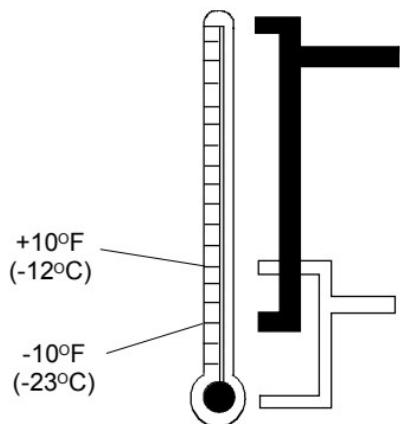
END OF WORK PACKAGE

0024 00-2

Under all but the coldest artic conditions, LSA (item 6, WP 0040 00), CLP (item 1, WP 0040 00), or LSA-T (item 5, WP 0040 00)(Marine Corps only), are the lubricants to use on your machine gun. Remember to remove excessive oil from the bore before firing.

NOTE

Lubrication instructions are mandatory. Do not mix lubricants on the same weapon. The weapon must be thoroughly cleaned during change from one lubricant to another. Cleaning solvent (available to unit maintenance) is recommended for cleaning during change from one lubricant to another. Only lubricants and cleaners specified in this manual are authorized for use on this weapon.



2AN0075

CLP – Cleaner, lubricant and preservative (item 1, WP 0040 00).

LSA – Weapons lubricating oil, semi-fluid (item 6, WP 0040 00).

LSA-T – Weapons lubricating oil, semi-fluid, with Teflon (item 5, WP 0040 00).

Between 10°F (-12°C) and -10°F (23°C) use CLP, LSA or LAW. Below -10°F (-23°C) use only LAW.

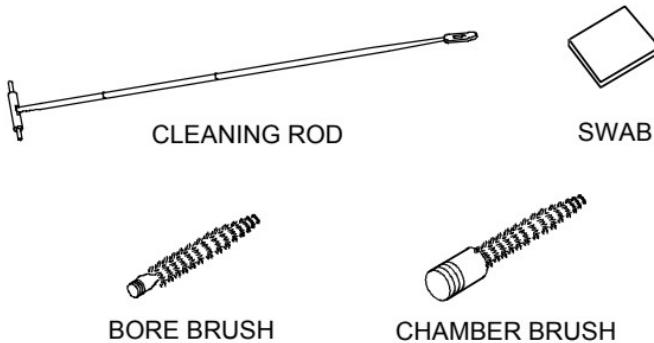
LAW – Weapons lubricating oil, artic (item 4, WP 0040 00).

Lightly lube – A film of oil barely visible to the eye.

WARNING

Be sure to clear your weapon before disassembling, cleaning, inspecting, transporting or storing.

After firing, field strip your machine gun (WP 0021 00). Clean bore and chamber with cleaning rod, chamber brush, bore brush, and swab (item 8, WP 0040 00) soaked with RBC (item 3, WP 0040 00) or CLP (item 1, WP 0040 00) until a clean swab can be run through the bore without getting dirty.



2AN0076

0025 00-3

Clean powder-fouled parts, except the buffer, with a wiping rag (item 7, WP 0040 00) dampened with RBC (item 3, WP 0040 00) or CLP (item 1, WP 0040 00).

Wipe dry and lube as required. Inspect and run a lightly oiled swab (item 8, WP 0040 00) through the bore and chamber (WP 0022 00).

If your machine gun isn't used, it still needs complete cleaning and lubing at least every 90 days. (Unusual conditions could shorten this interval.)

GENERAL**NOTE**

Perform this adjustment procedure only if barrel assembly/front sight assembly has been replaced or if there is a new operator.

Proper trigger control is pulling the trigger all the way to the way to the rear and then releasing completely. Squeezing the trigger can cause accelerated wear on the trigger tripping lever, sear, and operating rod leading to a run-away gun.

Check for the following prior to making adjustments:

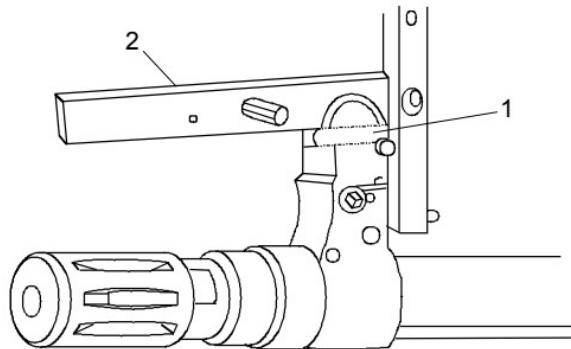
- Cleanliness of barrel front sight.
- Cleanliness of contact surfaces of the barrel adapter, barrel, and receiver.
- Rigidity and good condition of the slides and rear sight base.
- Correct assembly of flash hider/suppressor.
- Correct assembly of barrel to receiver.

ADJUSTMENT OF SIGHT FOR ELEVATION

Lift the front sight retaining strap to the vertical position using the front sight adjustment tool.

Rotate the front sight blade one or more half turns using the front sight adjustment tool.

- At a range of 10 meters, one-half turn of the front sight blade will move the strike of the round by approximately 0.5 cm (1/5 inch). One full turn will move the strike of the rounds by approximately 1.0 cm (approximately 3/8 inch).
- If the center of the shot group is above the point of aim, raise the front sight blade by turning it counter-clockwise.
- If the center of the shot group is below the point of aim, lower the front sight blade by turning it clockwise.



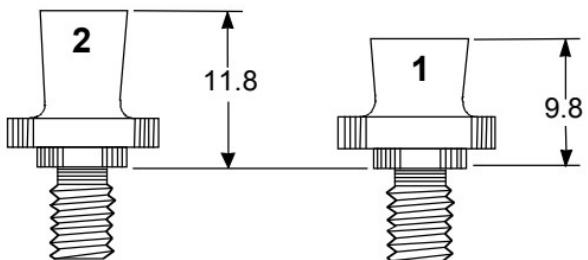
2AN0077

0026 00-3

ADJUSTMENT OF SIGHT FOR ELEVATION (cont)

NOTE

There are two types of front sight blades. The number 1 blade is 9.8 mm tall; the number 2 blade is 11.18 mm tall.



2AN0078

If the required correction cannot be obtained with the installed front sight blade, you may need to install the other blade.

- The maximum unscrewed position of either blade is where the base of the blade is flush with the front sight protector surface. If the center of the shot group is still above the point of aim with the number 1 blade unscrewed to the maximum position, remove it and install a number 2 blade. Start with the number 2 blade at a flush position, two full turns (clockwise) should approximate the same position as the number 1 blade.
- If the center of the shot group is still below the point of aim with the number 2 blade screwed all the way in (clockwise), remove it and install a number 1 blade. Starting with the number 1 blade screwed clockwise, two full turns (counter-clockwise) should approximate the same position as the number 2 blade.
- If the center of the shot group cannot be brought to the point of aim after trying both sight blades, the spare barrel (BII) should be used and a new barrel assembly acquired. If neither barrel assembly can be adjusted, the weapon should be coded and turned in through normal channels.

ADJUSTMENT OF SIGHT FOR WINDAGE

Move the front sight protector to the right or left according to the correction that is needed.

- At a range of 10 meters, one complete rotation (360°) of the adjusting screws will move the center of the shot group 0.8 cm (approximately 1/3 inch).
- If the center of the shot group is to the left of the point of aim, move the front sight protector to the left. To move the front sight protector to the left, first unscrew the screw on the left side (looking from the rear of the weapon) of the sight protector more than the number of turns needed for the sight correction. Then screw in the right side of the front sight protector the desired number of turns. Finally screw in the left side of the sight protector fully home.

- If the center of the shot group is to the right of the point of aim, move the front sight protector to the right. To move the front sight protector to the right, first turn the hex adjusting screw on the right counter-clockwise to loosen it the desired amount. Then turn the hex adjusting screw on the left side clockwise the same number of turns to tighten.

0026 00-7/8 blank

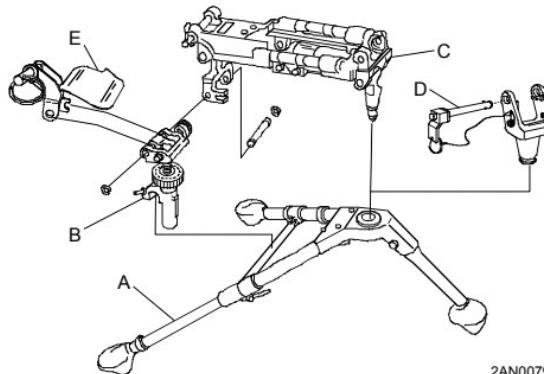
A – Tripod Leg Assembly.

B – Traversing and Elevating (T&E) Mechanism.

C – Flexible Mount Assembly (M240G only). Houses T&E adapter bracket and pintle. Absorbs recoil of weapon, improving accuracy.

D – Pintle Mount (M240B).

E - Fork Assembly (M240B).



2AN0079

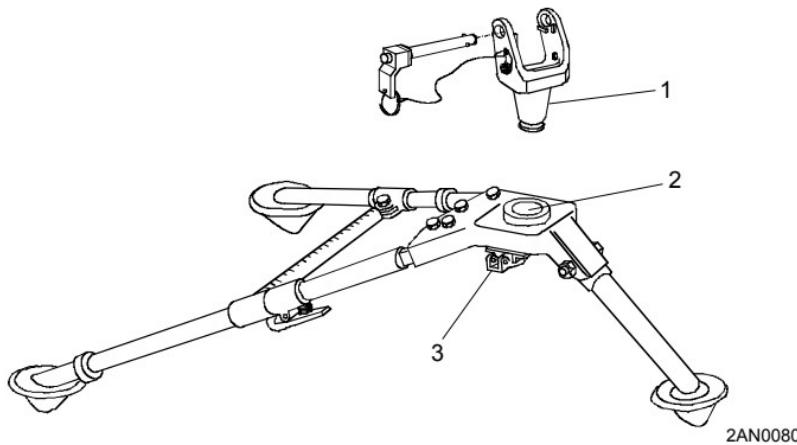
0027 00-1/2 blank

MOUNTING T&E MECHANISM AND PINTLE ASSEMBLY TO TRIPOD (M122A1)

0028 00

Place the pintle assembly (1) into the sleeve bushing on the tripod leg assembly (2).

Release the pintle lock (3) on tripod leg assembly to secure the pintle assembly to the tripod.



0028 00-1

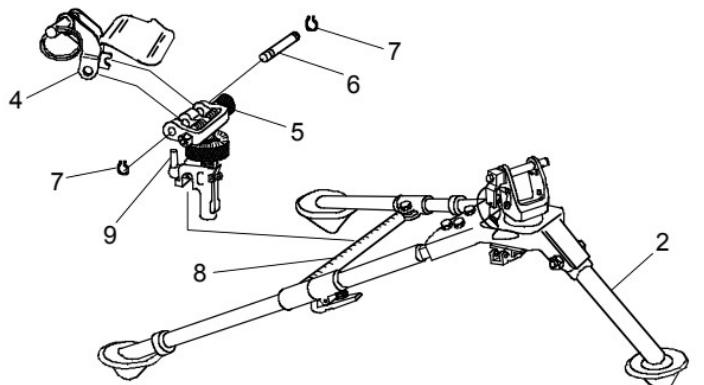
**MOUNTING T&E MECHANISM AND
PINTLE ASSEMBLY TO TRIPOD (M122A1) (cont)**

0028 00

NOTE

Deflector on fork assembly should deflect to the right.

If not already assembled, align holes in fork assembly (4) with holes in T&E (5). Insert pin (6) through fork assembly and T&E and secure with "C" clamps (7).



2AN0081

0028 00-2

Place T&E assembly (5) (with the fork assembly attached) onto the traverse bar (8) of tripod leg assembly (2). Lock T&E mechanism into place by turning lock lever (9) clockwise.

NOTE

For maintenance and repair of the M122A1 tripod, refer to TM 9-1005-245-13&P.

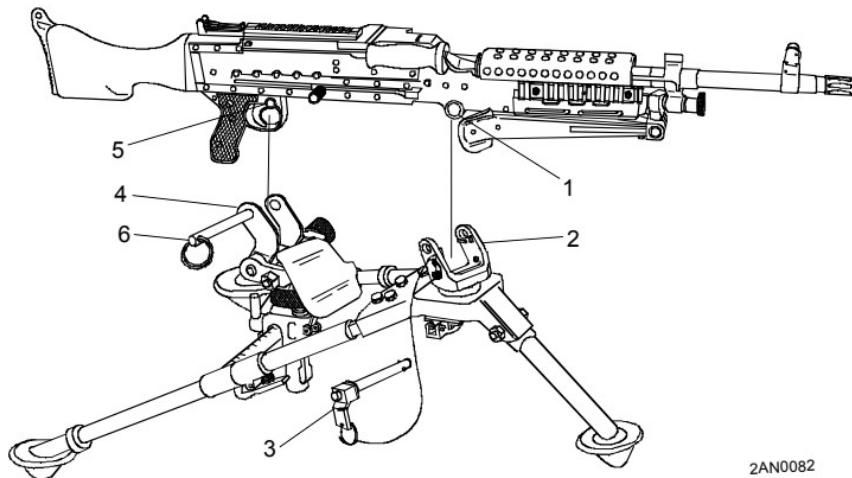
END OF WORK PACKAGE

0028 00-3/4 blank

**MOUNTING WEAPON ON
M122A1 TRIPOD ASSEMBLY**

0029 00

Position weapon over tripod assembly with T&E mechanism and pintle installed.



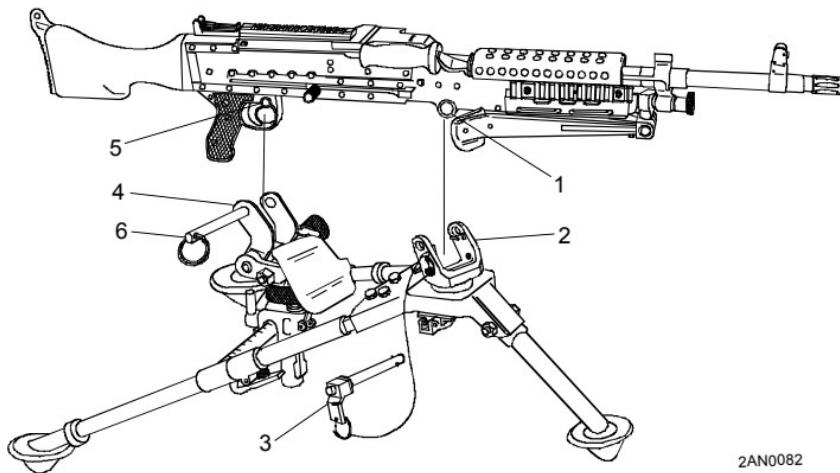
2AN0082

0029 00-1

MOUNTING WEAPON ON M122A1 TRIPOD ASSEMBLY (cont)

0029 00

Tilt muzzle down slightly and insert the weapons front receiver bushing (1) into the slots in the pintle assembly (2). Insert quick release pin (3) through pintle (2) and front receiver bushing (1).



0029 00-2

Lower the rear of the weapon into the fork assembly (4). Align the mounting hole (5) in trigger housing with hole in fork assembly (4).

Insert spring pin (6) through the holes in trigger assembly and fork, insuring weapon is securely attached.

END OF WORK PACKAGE

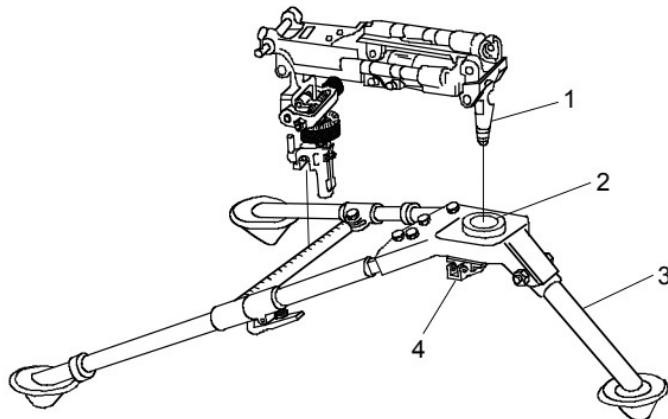
0029 00-3/4 blank

MOUNTING T&E MECHANISM AND FLEXIBLE MOUNT ASSEMBLY TO M122 TRIPOD

0030 00

Place the pintle (1) of the flexible mount assembly into the sleeve bushing (2) on the tripod leg assembly (3).

Release the pintle lock (4) on tripod leg assembly to secure the flexible mount assembly to the tripod leg assembly (3).



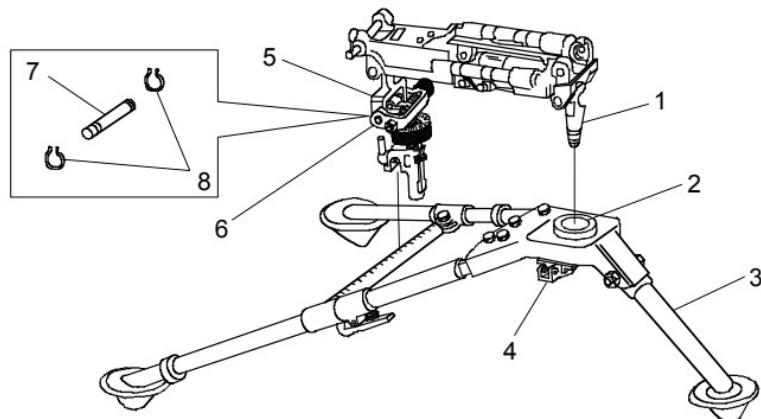
2AN0084

0030 00-1

MOUNTING T&E MECHANISM AND FLEXIBLE MOUNT ASSEMBLY TO M122 TRIPOD (cont)

0030 00

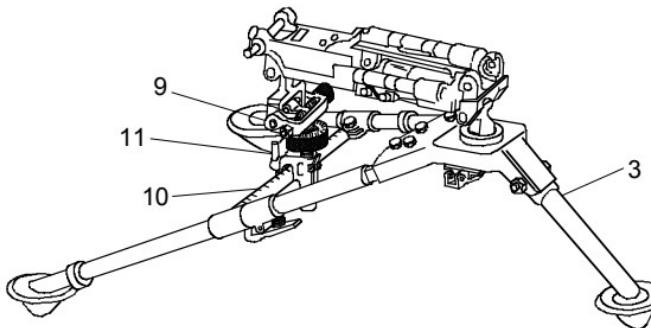
If not already assembled, align holes in flexible mount T&E cradle bracket (5) with holes in T&E (6). Insert pin (7) through cradle bracket and T&E and secure with "C" clamps (8).



2AN0085

0030 00-2

Place T&E assembly (9) (with the flex mount assembly attached) onto the traverse bar (10) of tripod leg assembly (3). Lock T&E mechanism into place by turning lock lever (11) clockwise.



2AN0086

0030 00-3

**MOUNTING T&E MECHANISM AND
FLEXIBLE MOUNT ASSEMBLY TO M122 TRIPOD (cont)**

0030 00

NOTE

For maintenance and repair of M122 tripod and T&E, refer to TM 9-1005-245-13&P.

END OF WORK PACKAGE

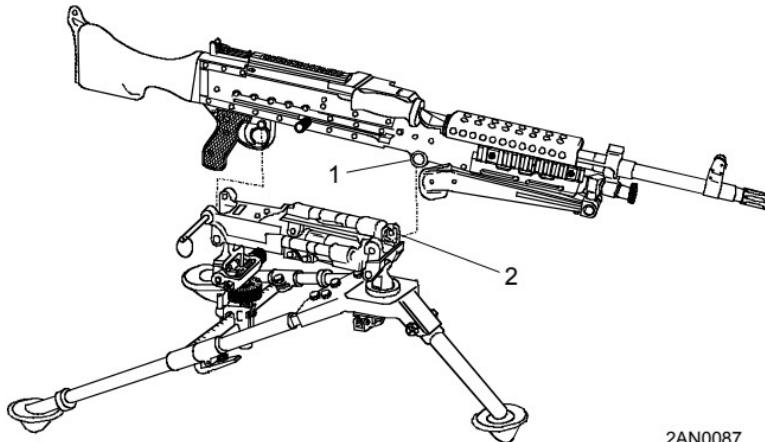
0030 00-4 Change 1

MOUNTING WEAPON ON FLEXIBLE MOUNT ASSEMBLY AND M122 TRIPOD

0031 00

Position weapon over tripod assembly with flexible mount and T&E mechanism installed.

Tilt muzzle down slightly and insert the weapons front receiver bushing (1) into the front cradle slot of the flexible mount assembly (2). Pull the weapon to the rear to fully seat the receiver bushings in the cradle.



2AN0087

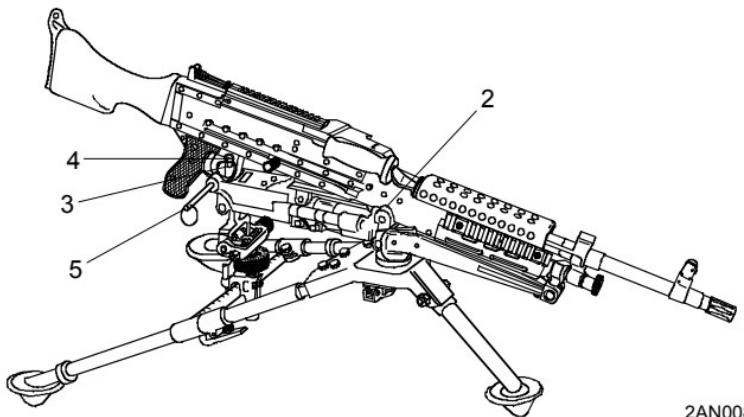
0031 00-1

MOUNTING WEAPON ON FLEXIBLE MOUNT ASSEMBLY AND M122 TRIPOD

0031 00

Lower the rear of the weapon onto the flexible mount assembly (2). Align the mounting hole (3) in trigger housing with hole in the flexible mount (4).

Insert spring pin (5) through the hole in the flexible mount and receiver assembly. Ensure weapon is securely attached to the flex mount.



2AN0088

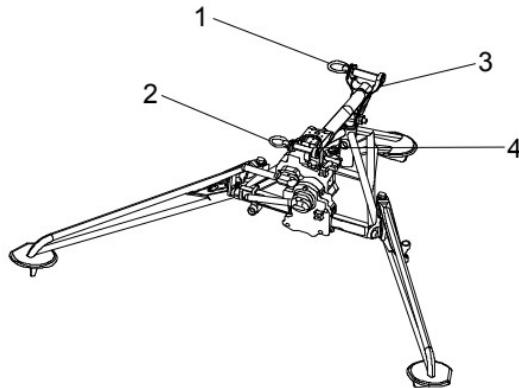
END OF WORK PACKAGE

0031 00-2

NOTE

M240B bipod legs fold to the rear. M249 bipod legs must fold forward.

Pull quick release pins (1 and 2) to the left. Insert front mounting point of weapon into front (3) of mounting bracket and secure with quick release pin (1). Lower the weapon (butt stock) down into rear yoke (4) and secure with quick release pin (2) to the rear mounting point of weapon. Ensure pin rings are not lodged between weapon and mounting bracket. Reverse procedure to remove weapon.



**MOUNTING WEAPON ON M6 PEDESTAL MOUNT
AND M197 MACHINE GUN MOUNT**

0032 00

The weapon can be mounted on a M998 High Mobility Multipurpose Wheeled Vehicle (HMMWV) (Cargo/Troop Carrier).

WARNING

Firing on-the-move is not permitted from the M998.

The canvas cover above the driver and passenger seats should always be in place when firing.

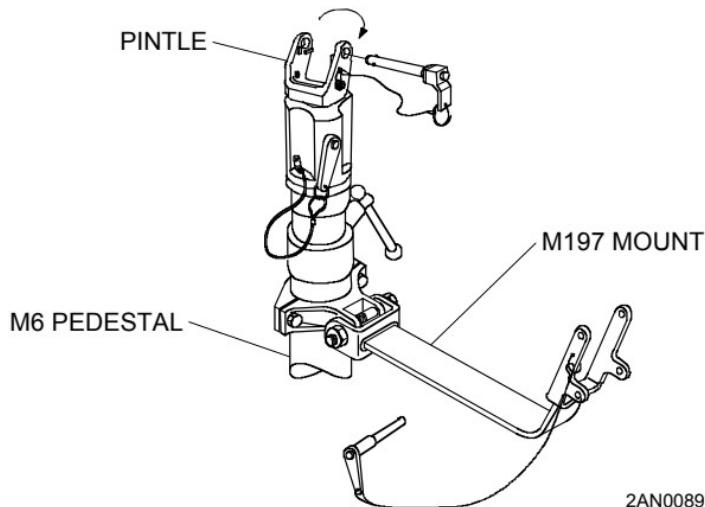
Ground personnel should not be within 10 meters of the vehicle when firing.

0032 00-1

**MOUNTING WEAPON ON M6 PEDESTAL MOUNT
AND M197 MACHINE GUN MOUNT (cont)**

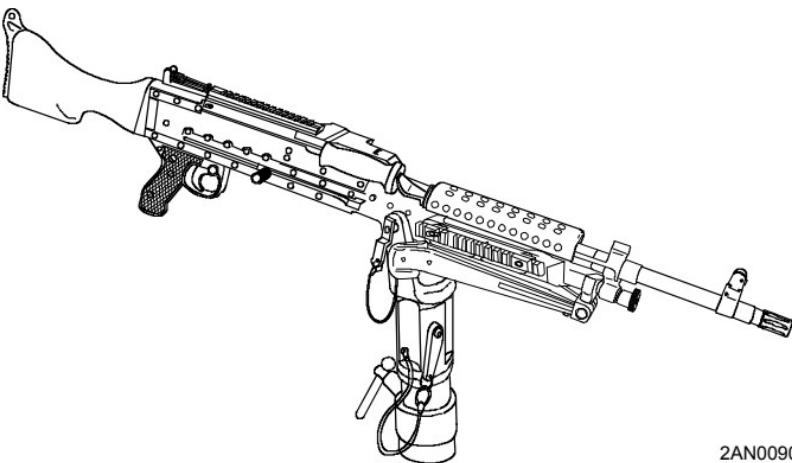
0032 00

Assure clevis of pintle assembly slants to rear.



0032 00-2

Place weapon in pintle, aligning the front receiver bushing with the holes in the pintle and secure with quick release pin.



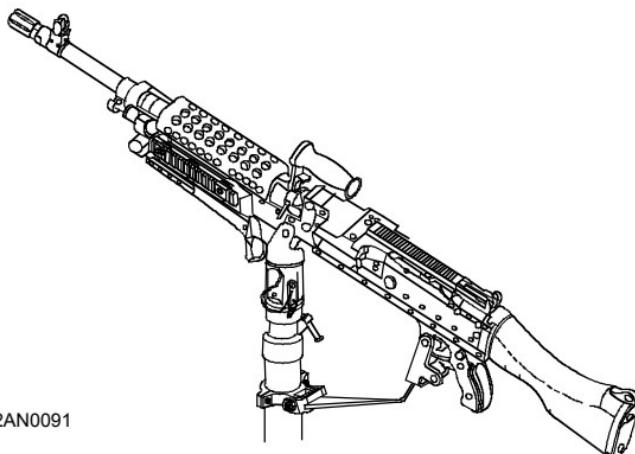
2AN0090

0032 00-3

**MOUNTING WEAPON ON M6 PEDESTAL MOUNT
AND M197 MACHINE GUN MOUNT (cont)**

0032 00

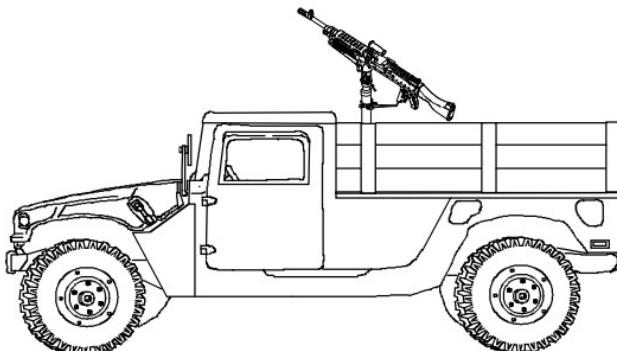
Align the mounting hole in the trigger housing with the holes in the fork of the mount and secure with quick release pin.



0032 00-4

CAUTION

When the weapon is not in use it should be removed from the pedestal or secured by the travel lock.



2AN0092

0032 00-5

**MOUNTING WEAPON ON M6 PEDESTAL MOUNT
AND M197 MACHINE GUN MOUNT (cont)**

0032 00

NOTE

For mounting instructions of M6 Pedestal and M197 Mounts in M998 HMMWV's refer to TM 9-1005-245-13&P.

For maintenance and repair of M6 Pedestal and M197 Mounts, refer to TM 9-1005-245-13&P.

END OF WORK PACKAGE

0032 00-6

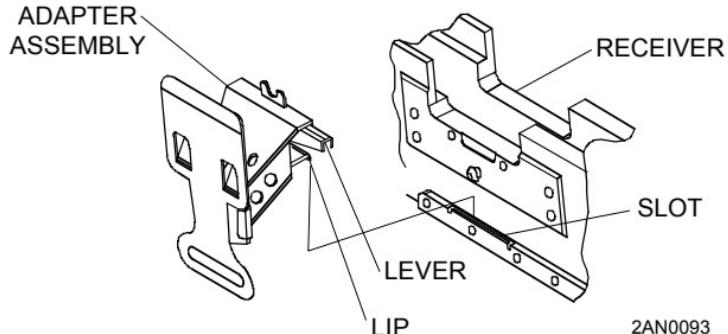
ATTACHMENT OF AMMUNITION ADAPTER ASSEMBLY (M240B)

0033 00

Open cover, and raise feed tray.

Insert curved lip of the adapter assembly into slot located in the rail on the side of receiver, below feed tray.

Depress lever on the adapter assembly.



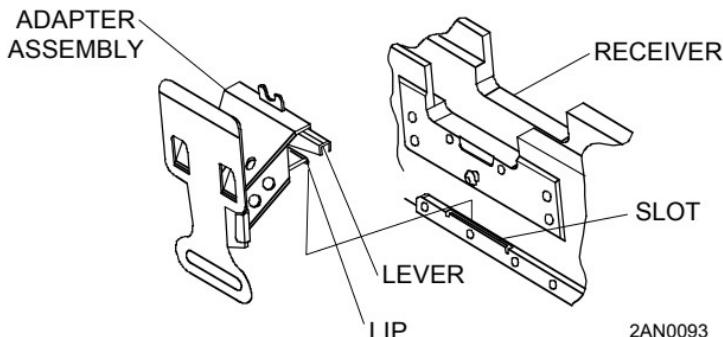
0033 00-1

ATTACHMENT OF AMMUNITION ADAPTER ASSEMBLY (M240B) (cont)

0033 00

Push the adapter toward the receiver until it is against the receiver.

Release lever to allow the adapter assembly to secure itself onto the button on the receiver.



2AN0093

END OF WORK PACKAGE

0033 00-2

M24 BLANK FIRING ADAPTER (M240B/M240D/M240G/M240H/M240N) AND M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) 0034 00

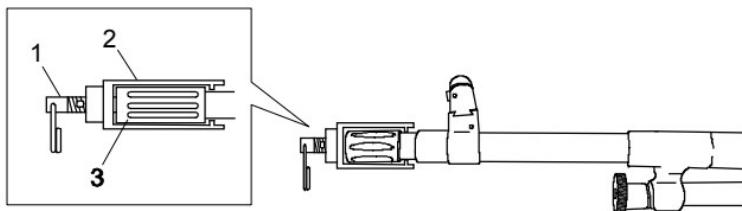
M24 BLANK FIRING ADAPTER

NOTE

Each weapon requires two, M24 BFA's (primary and spare barrel).

ATTACHMENT

Unscrew shaft (1) until it slides all the way to the rear. Install chamber device (2) over the flash suppressor (3).



2AN0094

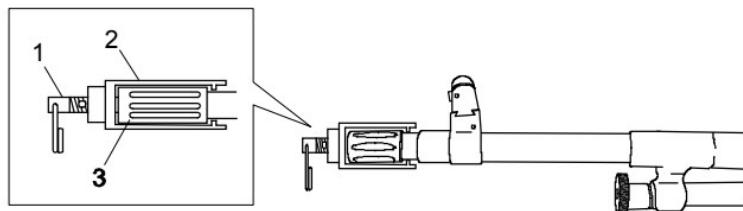
0034 00-1

Change 1

M24 BLANK FIRING ADAPTER (M240B/M240D/M240G/M240H/M240N) AND M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00

M24 BLANK FIRING ADAPTER (cont)

Slide shaft (1) into throat of flash suppressor. Engage threads on shaft into body of chamber device (2); turn clockwise until hand tight.



2AN0094

0034 00-2

Change 1

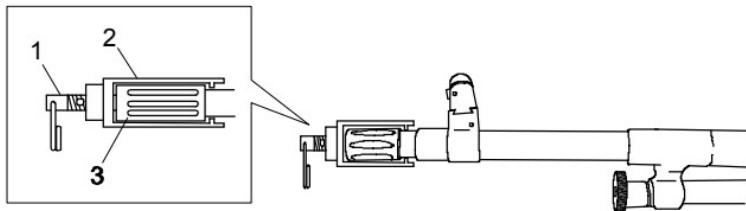
REMOVAL

NOTE

Allow barrels to cool until they can be held with bare hands prior to removing the chamber device from the barrel.

Hold barrel and rotate chamber body (2) approximately 180° to break any carbon seal between the shaft (1) and the suppressor (3).

Unscrew shaft (1) until threads disengage. Remove chamber device from flash suppressor (3).



2AN0094

0034 00-3

M24 BLANK FIRING ADAPTER (M240B/M240D/M240G/M240H/M240N) AND M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00

M21 BLANK FIRING ATTACHMENT

The following restrictions must be observed to avoid hazardous concentrations of gases caused while firing the M240 machine gun with the M21 BFA. A blank-fire mission is limited to 200 rounds fired at a rate of 100 rounds per minute or less in a 25-round bursts with gas regulator on weapon set at position number 1.

Table 1 identifies vehicle operating mode/mission restriction requirements.

Table 1. Operating Mode Firing Restrictions

| Vehicle System | Engine On Heater Off Hatches Open Blower On | Engine Off Heater Off Hatches Open Blower On | Engine On Heater On Hatches Closed Blower On |
|--------------------------|--|---|---|
| M2/M3 BFVS | None | 7 times/24 hours | 14 times/24 hours |
| LAV 25 (Coax) | None | 7 times/24 hours | 14 times/24 hours |
| M1 Series Tank (Coax) | None | 34 times/24 hours | 48 times/24 hours |

Effective use of the M21 BFA/M240 machine gun system is greatly dependant on adherence to the installation instructions and mission scenario limits in the instructions.

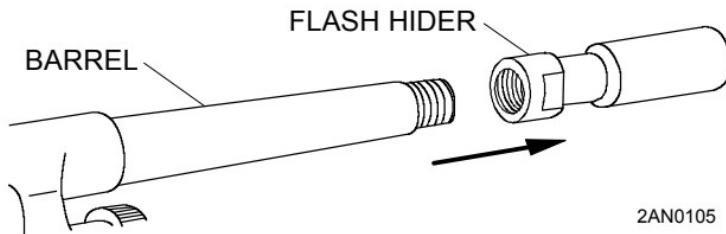
**M24 BLANK FIRING ADAPTER (M240B/M240D/M240G/M240H/M240N) AND
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00**

**ATTACHMENT OF CHAMBER AND DISCRIMINATOR ASSEMBLY
(M2/M3 BFV/M1 SERIES TANK/LAV 25 SERIES (USMC))**

CAUTION

Take care not to damage threads on end of barrel. Barrel must completely cooled before removing flash hider or attaching BFA.

Using 23mm box/open end combination wrench, remove flash hider from barrel of weapon. Store flash hider in ordnance spare parts bag and place in oddment tray in vehicle. Be sure to tag flash hider so it will remain with the barrel.



2AN0105

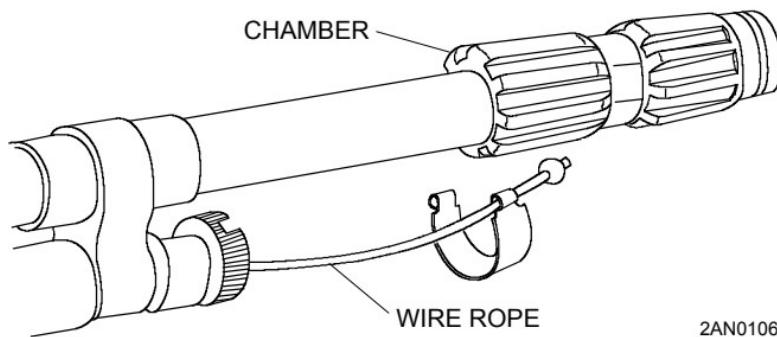
0034 00-6

Change 1

Remove wire rope assembly from chamber.

Screw chamber onto end of barrel and tighten with box/open-end wrench.

Reattach wire rope assembly onto chamber



2AN0106

0034 00-7

M24 BLANK FIRING ADAPTER (M240B/M240D/M240G/M240H/M240N) AND M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00

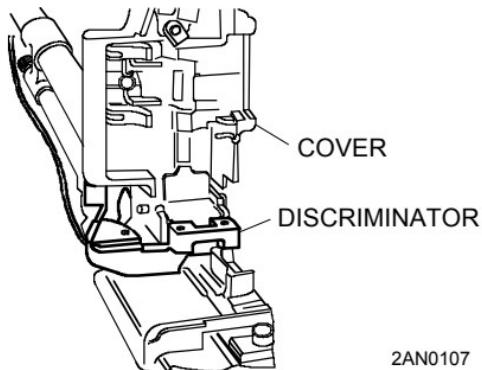
ATTACHMENT OF CHAMBER AND DISCRIMINATOR ASSEMBLY (M2/M3 BFV/M1 SERIES TANK/LAV 25 SERIES (USMC))

WARNING

Discriminator must be in place in feed tray of machine gun when M21 BFA is in use to prevent live ammo from entering the barrel chamber.

Open cover on receiver and place discriminator in feed tray with slot in discriminator over front lip of tray.

Closing the cover will retain the discriminator in place.



2AN0107

0034 00-8

Change 1

INSTALLATION OF WEAPON ONTO VEHICLE

Install M240C machine gun into BFV mount per TM 9-2350-252-10.

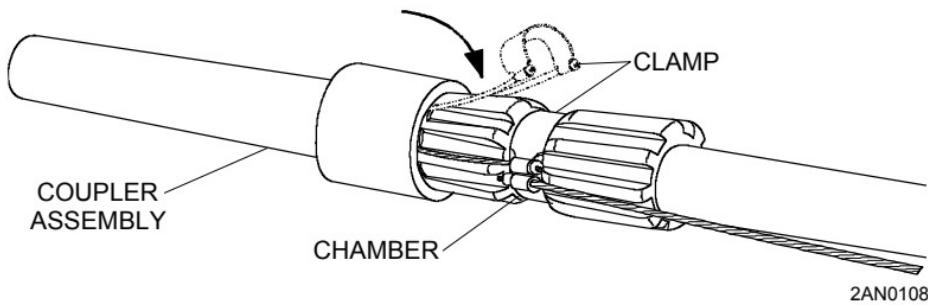
Install M240 machine gun onto exterior mount (M1 Tank) per TM 9-2350-255-10, or into LAV 25 per TM 08594A-10/2 (USMC only).

Install M240E1 machine gun onto LAV 25 exterior mount per TM 08594A-10/2 (USMC only).

M24 BLANK FIRING ADAPTER (M240B/M240D/M240G/M240H/M240N) AND M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00

INSTALLATION OF COUPLER ASSEMBLY AND EXTENSION ASSEMBLY ON M240 (M1 TANK COAX ONLY)

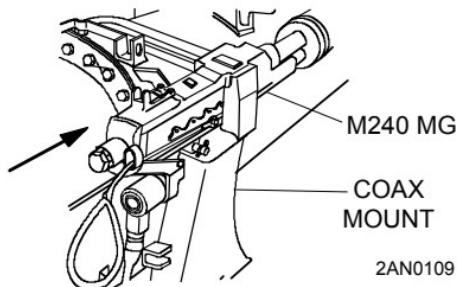
Place coupler assembly over the chamber and clip coupler assembly clamp to hold in place.



NOTE

If BFA/coupler assembly catches in smoke box, shake gun slightly as you slide it forward.

Install M240 machine gun onto coax mount of M1 Series tank.



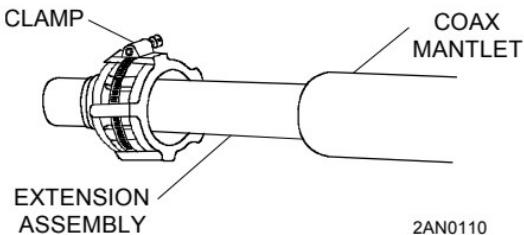
On outside of turret, loosen clamp on extension assembly so that the inside diameter of the extension assembly will clear the outside diameter of the coax mantlet. Do not remove clamp from extension assembly.

M24 BLANK FIRING ADAPTER (M240B/M240D/M240G/M240H/M240N) AND M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00

INSTALLATION OF COUPLER ASSEMBLY AND EXTENSION ASSEMBLY ON M240 (M1 TANK COAX ONLY) (cont)

Slide extension assembly into coax mantlet until extension is over end of coax mantlet and bottomed. If resistance is encountered during installation, shake extension assembly slightly while sliding into coax mantlet. Fully seat extension assembly in place over the coax mantlet.

With clamp positioned over slots in extension assembly, tighten until strap is snug against the mantlet.



2AN0110

REMOVAL OF WEAPON FROM VEHICLE

Remove M240C machine gun from BFV mount per TM 9-2350-252-10.

Remove M240 machine gun from exterior mount (M1 Tank) per TM 9-2350-255-10, or into LAV 25 per TM 08594A-10/2 (USMC only).

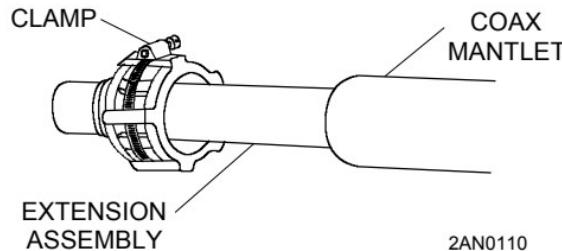
Remove M240E1 machine gun from LAV 25 exterior mount per TM 08594A-10/2 (USMC only).

0034 00-13

M24 BLANK FIRING ADAPTER (M240B/M240D/M240G/M240H/M240N) AND M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00

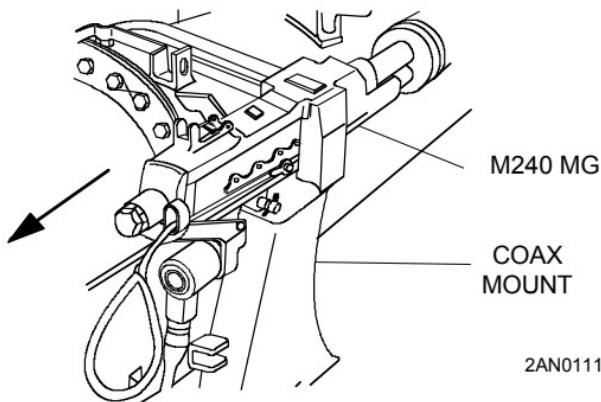
REMOVAL OF COUPLER ASSEMBLY AND EXTENSION ASSEMBLY ON M240 (M1 TANK COAX ONLY)

Loosen clamp. Slide extension assembly out of coax mantlet. Tighten clamp on extension assembly.



2AN0110

Remove M240 from coax mount per TM 9-2350-255-10.

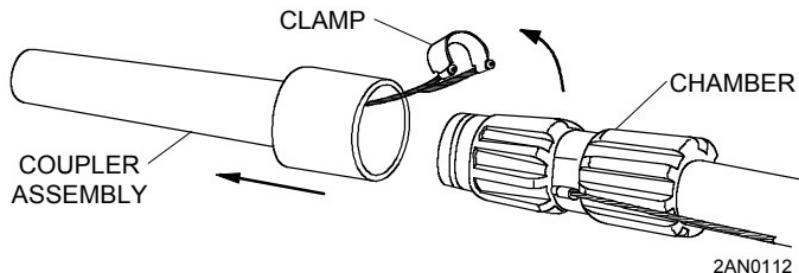


0034 00-15

**M24 BLANK FIRING ADAPTER (M240B/M240D/M240G/M240H/M240N) AND
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00**

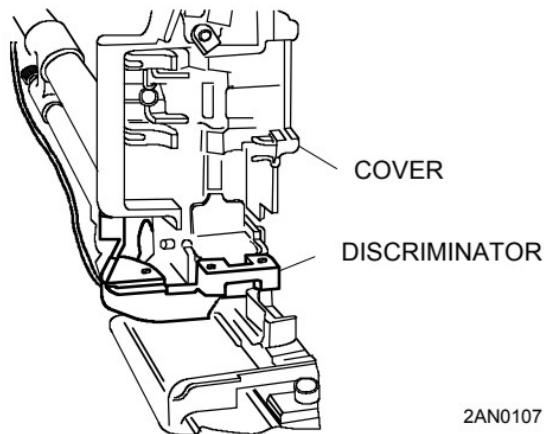
**REMOVAL OF COUPLER ASSEMBLY AND EXTENSION ASSEMBLY ON
M240 (M1 TANK COAX ONLY)**

Unclip coupler assembly from chamber and remove (M1 Series Tank only).



REMOVAL OF DISCRIMINATOR ASSEMBLY

Open cover of machine gun and remove discriminator assembly.



2AN0107

0034 00-17

**M24 BLANK FIRING ADAPTER (M240B/M240D/M240G/M240H/M240N) AND
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00**

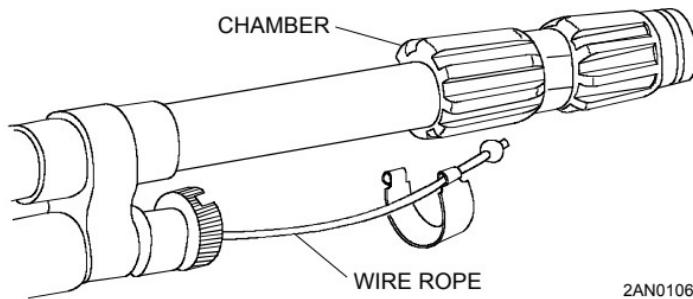
REMOVAL OF DISCRIMINATOR ASSEMBLY (cont)

CAUTION

Do not remove chamber from machine gun barrel until both items are cooled.

Take care not to damage threads on end of barrel.

Remove wire rope assembly from chamber.



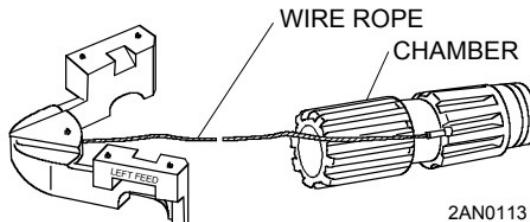
2AN0106

0034 00-19

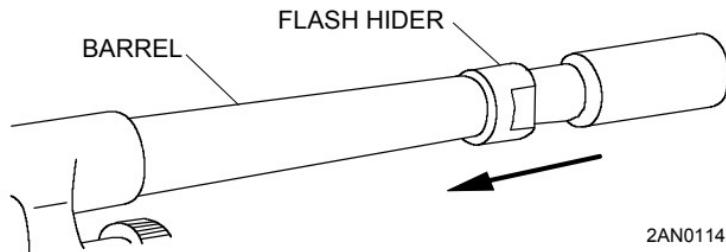
M24 BLANK FIRING ADAPTER (M240B/M240D/M240G/M240H/M240N) AND M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00

Loosen chamber with box/open-end combination wrench and unscrew from barrel of weapon.

Replace wire rope assembly on chamber.



Replace flash hider on machine gun barrel.

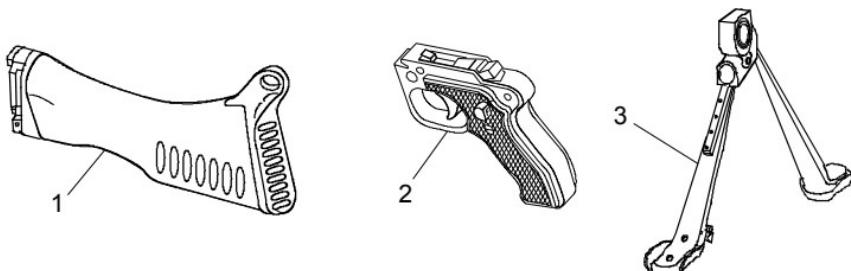


2AN0114

0034 00-21/22 blank

The Emergency Egress Package is to be used only on the M240D. The package consists of the following components:

- Buffer and Buttstock Assembly (1), P/N 12976851
- Trigger Assembly (2), P/N 12976869
- Bipod Assembly (3), P/N 12976883



2AN0115

WARNING

Be sure to clear your weapon before disassembling, clearing, inspecting, transporting, or storing.

Clear your machine gun (WP 0010 00).

Depress backplate latch and lift buffer and spade grip assembly straight up.

Install buffer and buttstock assembly; make sure it locks in place.

Depress spring on trigger housing pin and remove pin/trigger housing assembly.

Place safety of infantry trigger housing assembly to "F" fire position. Position front of housing assembly into place and pivot into position; install trigger housing pin from right to left.

Attach the bipod lag assembly to the receiver by aligning the gaps in the bipod head with the flanges on the receiver. Swivel the bipod assembly so it's in the upright position. Drive the retaining pin into the cut-out in the bipod head.

END OF WORK PACKAGE

The Emergency Egress Package is to be used only on the M240H. The package consists of the following components:

- Buffer and Buttstock Assembly (1), P/N 12976851
- Trigger Assembly (2), P/N 12976869
- Sling with Hook Assembly (3), P/N 12976938



2AN0115-1

WARNING

Be sure to clear your weapon before disassembling, clearing, inspecting, transporting, or storing.

Clear your machine gun (WP 0010 00).

Depress backplate latch and lift buffer and spade grip assembly straight up.

Install buffer and buttstock assembly; make sure it locks in place.

Depress spring on trigger housing pin and remove pin/trigger housing assembly.

Place safety of infantry trigger housing assembly to "F" fire position. Position front of housing assembly into place and pivot into position; install trigger housing pin from right to left.

Attach the sling to front sling swivel and at mounting point on buttplate.

END OF WORK PACKAGE

0035 01-2

Change 1

CHAPTER 5

AMMUNITION

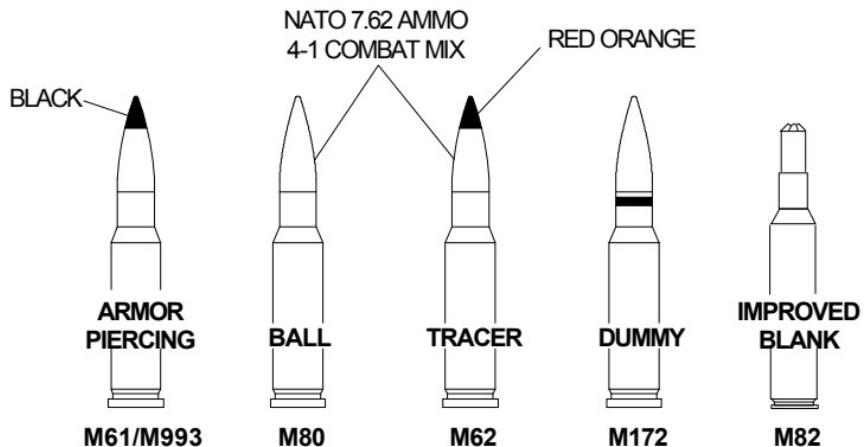
AMMUNITION

0036 00

WARNING

This is the only ammunition authorized for use in your machine gun. If it is not shown, it is not authorized.

Ammunition that fails to fire will be disposed of by authorized procedures.



2AN0095

0036 00-1

Protect ammunition from mud, sand, and water. If the ammunition gets wet or dirty, wipe it off at once with a clean, dry, rag (item 7, WP 0040 00). Wipe off light corrosion as soon as it is discovered. Turn in heavily corroded cartridges.

Do not expose ammunition to the direct rays of the sun. If the powder is hot, excessive pressure may develop when the weapon is fired.

Do not oil or grease ammunition. Dust and other abrasives that collect on greasy ammunition may cause damage to the operating parts of the machine gun. Moreover, oiled cartridges produce excessive chamber pressure.

Do not fire dented cartridges, cartridges with loose bullets, or otherwise defective rounds.

END OF WORK PACKAGE

0036 00-2

CHAPTER 6

SUPPORTING INFORMATION

This work package lists all forms, field manuals, and miscellaneous publications referenced in the manual.

ARMY REGULATIONS

- AR 190-11 Physical Security of Arms, Ammunition and Explosives

DEPARTMENT OF THE ARMY PAMPHLETS

- DA PAM 783-750..... The Army Maintenance Management System (TAMMS)

FIELD MANUALS

- FM 4-25.11 First Aid for Soldiers

- FM 3-5 NBC Decontamination

- FM 3-22.68 Crew-Served Machine Guns, 5.56-mm and 7.62-mm

FORMS

- DA Form 2402 Equipment inspection and Maintenance Worksheet
- DA Form 2028 Recommended Changes to Publications and Blank
- SF 368 Product Quality Deficiency Report
- NAVMC Form 10722 Recommended Changes to Publications

TECHNICAL MANUALS

- TM 4700.15/1 Equipment Report Procedures
- TM 1-1520-237-10 Operator's Manual for UH-60A Helicopter UH-60L
Helicopter EH-60A Helicopter
- TM 1-1520-240-10 Operator's Manual For Army CH-47D Helicopter

- TM 9-1005-245-13&P Operator's, Unit, and Direct Support Maintenance Manual with Repair Parts and Special Tools List for Machine Gun Mounts and Combinations for Tactical/Armored Vehicles and Ground Mounting
- TM 9-2350-252-10..... Operator's Manual for Fighting Vehicle, Infantry, Bradley
- TM 9-2350-255-10..... Operator's Manual for Operator Controls, PMCS, and Operation Under Usual Conditions Full-Tracked: 105-MM Gun, M1
- TM 08594A-10/2..... Operator's Manual for LAV-25
- TM 9-4933-273-12&P Operator's and Unit Maintenance Manual (Including RPSTL) for Boresighting Equipment, Weapon Small Arms, M30
- TM 750-244-7 Procedures for Destruction of Equipment in Federal Supply Classification 1000, 1005, 1010, 1020, 1030, 1055, 1090, and 1095 to Prevent Enemy Use

COMPONENTS OF THE END ITEM AND BASIC ISSUE ITEMS

0038 00

This work package lists components of the end item and basic issue items for the machine gun to help you inventory items required for safe and effective operation.

The Components of the End Item (COEI) and Basic Issue Items (BII) lists are divided into the following:

Components of the End Item (COEI): This is for informational purposes only and is not authority to requisition replacements. These items are part of the end item but are removed and separately packaged for transportation or shipment. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Illustrations are furnished to assist you in identifying the items.

**COMPONENTS OF THE END ITEM
AND BASIC ISSUE ITEMS (cont)**

0038 00

These are the minimum essential items required to place the machine gun in operation, to operate it, and to perform emergency repairs. Although shipped separately packaged, BII must be with the machine gun during operation and whenever it is transferred between property accounts. The illustrations will assist you with hard to identify items. This manual is your authority to request/requisition replacement BII, based on TOE/MTOE authorization of the end item.

EXPLANATION OF COLUMNS. The following provide an explanation of columns found in the tabular listings:

Column (1) – Illus. Number, gives you the number of the item illustrated.

Column (2) – National Stock Number, the stock number of the item to be used for requisitioning purposes.

Column (3) – Description and Usable On Code, identifies the Federal item name (in capital letters) followed by a minimum description when needed. The last line below the description is the CAGEC (in parenthesis) and the part number. If the item you need is not the same for different models of the equipment, a Usable On Code will appear on the right side of the description column on the same line as the part number. These codes are identified

| <u>CODE</u> | <u>USED ON</u> | <u>CODE</u> | <u>USED ON</u> | <u>CODE</u> | <u>USED ON</u> |
|-------------|----------------|-------------|----------------|-------------|----------------|
| G69 | M240 | BC2 | M240D | BN4 | M240H |
| BB2 | M240B | AG8 | M240E1 | BJ8 | M240N |
| L04 | M240C | BC6 | M240G | | |

Column (4) – U/M, indicates how the item is issued for the National Stock Number shown in column (2).

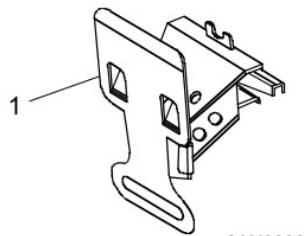
Column (5) – Qty Rqd, indicates the quantity required.

**COMPONENTS OF THE END ITEM
AND BASIC ISSUE ITEMS (cont)**

0038 00

Table 1. Components of End Item

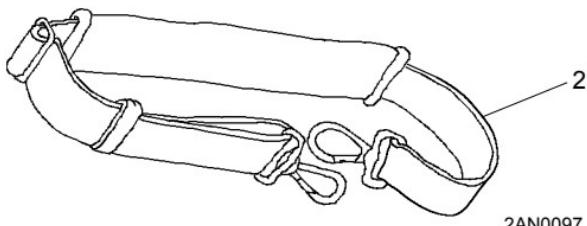
| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION CAGEC AND PART NUMBER | (4) USABLE ON CODE | (5) U/M | (5) QTY RQD |
|------------------------|---------------------------------|---|--------------------------|------------|-------------------|
| 1 | 1005-01-431-8324 | ADAPTER, AMMUNITION (19200) 12976909 | BB2 | EA | 1 |



2AN0096

0038 00-4

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION CAGEC AND PART NUMBER | (4) USABLE ON CODE | (5) QTY RQD |
|------------------------|---------------------------------|--|--------------------------|-------------------|
| 2 | 1005-01-439-6899 | SLING W/HOOK ASSEMBLY (19200) 12976938 | BB2 | EA |



2AN0097

0038 00-5

**COMPONENTS OF THE END ITEM
AND BASIC ISSUE ITEMS (cont)**

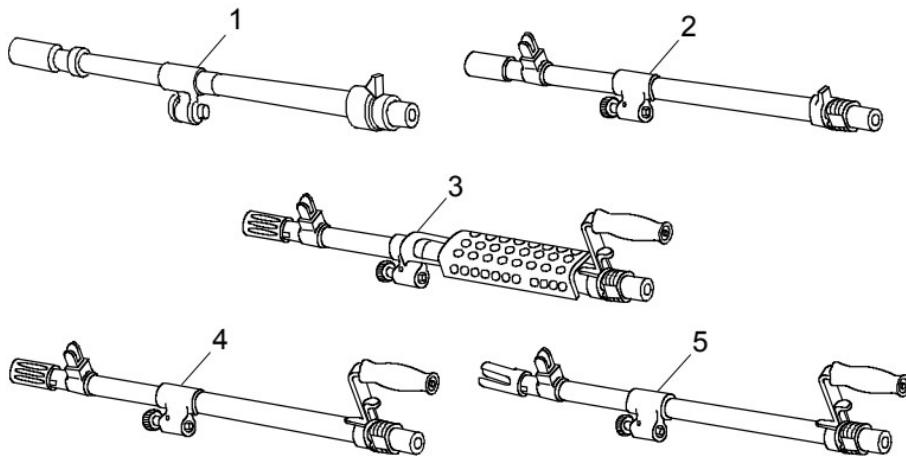
0038 00

Table 2. Basic Issue Items

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION CAGEC AND PART NUMBER | (4) USABLE ON CODE | (5) U/M | (5) QTY RQD |
|------------------------|---------------------------------|---|--------------------------|------------|-------------------|
| 1 | 1005-01-044-1026 | BARREL ASSEMBLY (19200) 11825985 | G69, L04 | EA | 1 |
| 2 | 1005-01-251-9701 | BARREL ASSEMBLY (19200) 12597035 | AG8 | EA | 1 |
| 3 | 1005-01-524-2427 | BARREL ASSEMBLY (19200) 13008851 | BB2 | EA | 1 |
| 4 | 1005-01-408-5897 | BARREL ASSEMBLY (19200) 12976818 | BC2, BC6, BJ8 | EA | 1 |
| 5 | 1005-01-522-4817 | BARREL ASSEMBLY (19200) 13008220 | BN4 | EA | 1 |

0038 00-6

Change 2



2AN0098

0038 00-7

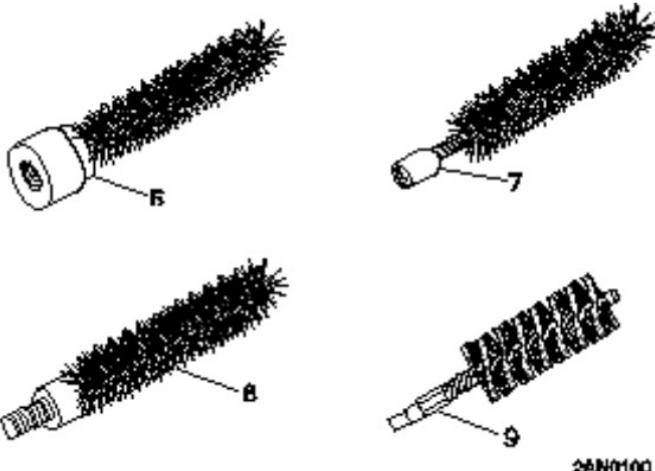
**COMPONENTS OF THE END ITEM
AND BASIC ISSUE ITEMS (cont)**

0038 00

Table 2. Basic Issue Items (cont)

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION CAGEC AND PART NUMBER | (4) USABLE ON CODE | (5) U/M | (5) QTY RQD |
|------------------------|---------------------------------|--|--------------------------|------------|-------------------|
| 6 | 1005-01-033-3925 | BRUSH, CLEANING, GAS CYLINDER (19200) 11826118 | BC6, BJ8 | EA | 1 |
| 7 | 1005-00-556-4174 | BRUSH, CLEANING, SMALL ARMS BORE (10001) 5564174 | BC6, BJ8 | EA | 2 |
| 8 | 1005-00-690-3115 | BRUSH, CLEANING, SMALL ARMS CHAMBER (19205) 7790452 | BC6, BJ8 | EA | 1 |
| 9 | 1005-00-350-4100 | BRUSH, CLEANING, SMALL ARMS RECEIVER (19200) 8448466 | BC2, BJ8 | EA | 1 |

0038 00-8



2ANH100

0038 00-9

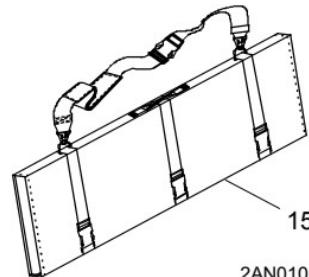
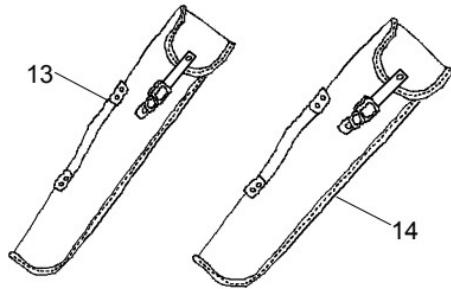
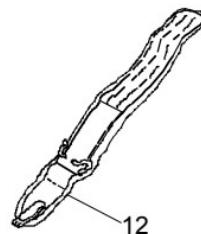
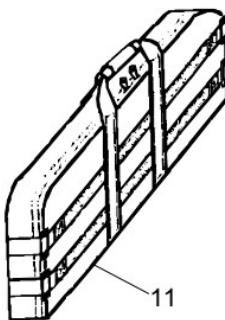
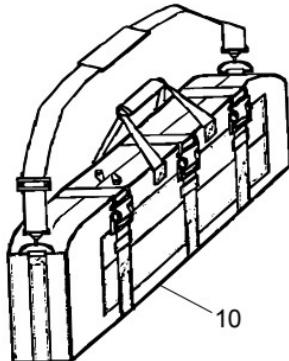
**COMPONENTS OF THE END ITEM
AND BASIC ISSUE ITEMS (cont)**

0038 00

Table 2. Basic Issue Items (cont)

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION CAGEC AND PART NUMBER | USABLE ON CODE | (4) U/M | (5) QTY RQD |
|------------------------|---------------------------------|---|---------------------|------------|-------------------|
| 10 | 8465-01-408-5431 | CASE, CARRYING, MACHINE GUN (0EUP8) SSC/BMG/M240G | BC6 | EA | 1 |
| 11 | 1005-01-408-5422 | CASE , CARRYING, SPARE BARREL (0EUP8) SSC/BBB/M240G | BC6 | EA | 1 |
| 12 | 1005-00-550-6573 | CASE, SMALL ARMS CLEANING ROD (19204) 5506573 | G69, L04 | EA | 1 |
| 13 | 1005-01-038-6025 | CASE SPARE BARREL (19200) 11826275 | G69, L04, AG8 | EA | 1 |

0038 00-10



2AN0101

0038 00-11

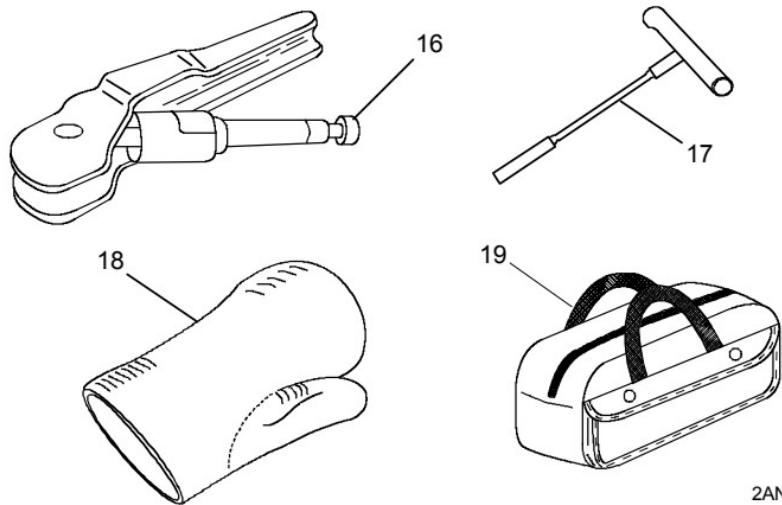
**COMPONENTS OF THE END ITEM
AND BASIC ISSUE ITEMS (cont)**

0038 00

Table 2. Basic Issue Items (cont)

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION CAGEC AND PART NUMBER | USABLE ON CODE | (4) U/M | (5) QTY RQD |
|------------------------|---------------------------------|--|-----------------------------|------------|-------------------|
| 14 | 1005-01-442-8626 | CASE, SPARE BARREL (19200) 12977109 | BC2, BJ8 | EA | 1 |
| 15 | 1005-01-470-3006 | CASE, SPARE BARREL (19200) 12991853 | BB2, BN4 | EA | 1 |
| 16 | 4933-01-033-1510 | EXTRACTOR, RUPTURED CARTRIDG CASE (19200) 11826264 | | EA | 1 |
| 17 | 5340-01-265-2683 | HANDLE ASSEMBLY, CLEANING ROD (19204) 12900436 | BC6, BJ8, G69, L04 | EA | 1 |

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2AN0102

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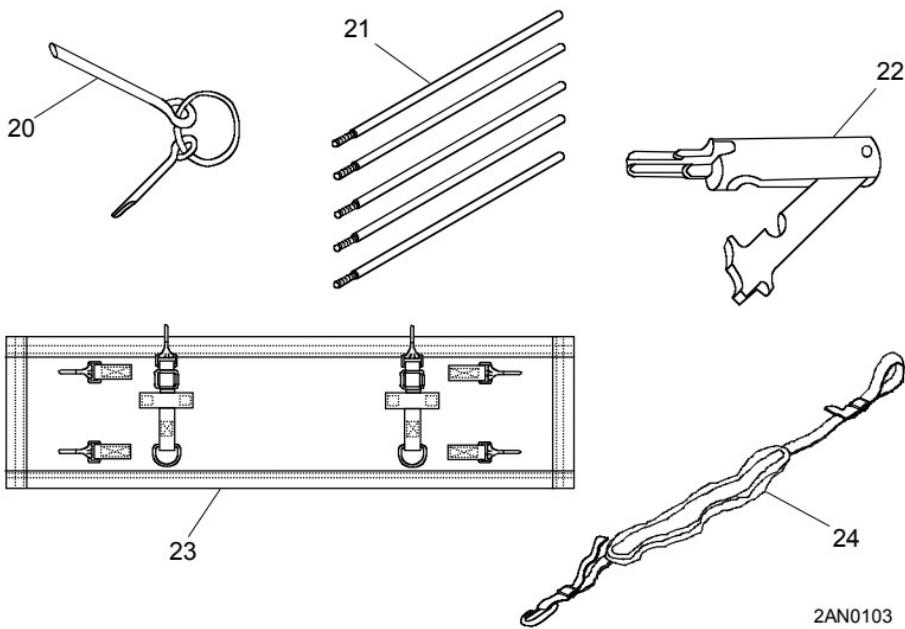
**COMPONENTS OF THE END ITEM
AND BASIC ISSUE ITEMS (cont)**

0038 00

Table 2. Basic Issue Items (cont)

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION CAGEC AND PART NUMBER | USABLE ON CODE | (4) U/M | (5) QTY RQD |
|------------------------|---------------------------------|--|-----------------------------|------------|-------------------|
| 18 | 8415-01-092-0039 | MITTEN, HEAT PROTECTIVE M5337 (81349) MIL-M-11199 | AG8, BJ8, G69, L04 | EA | 1 |
| 19 | 5143-00-329-4306 | POUCH, MECHANICS TOOL (80049) 50J8016 | BJ8 | EA | 5 |
| 20 | 4933-01-047-3394 | REAMER (19200) 11826036 | BC6, BJ8 | EA | 1 |
| 21 | 1005-00-726-6109 | ROD, SECTION, CLEANING, SMALL ARMS (19205) 7266109 | BC6, BJ8, G69, L04 | EA | 1 |

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2AN0103

0038 00-15

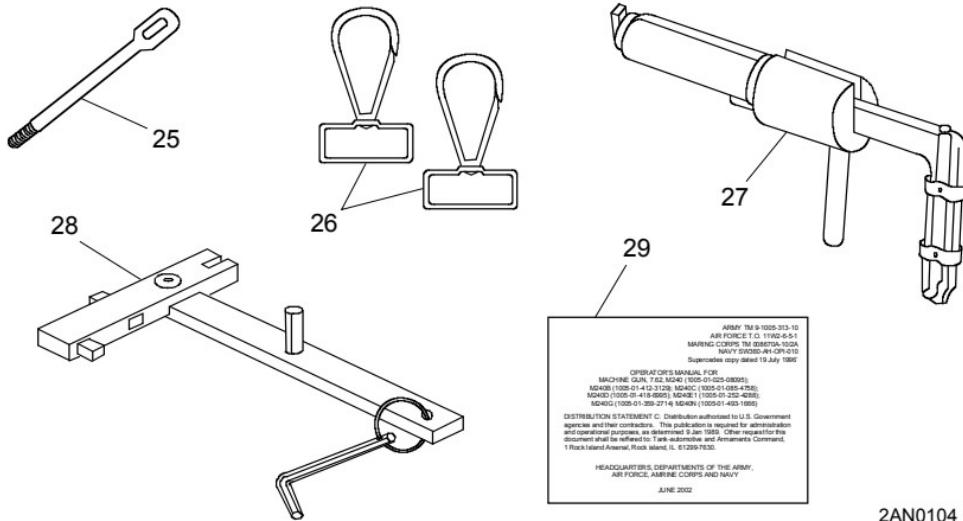
**COMPONENTS OF THE END ITEM
AND BASIC ISSUE ITEMS (cont)**

0038 00

Table 2. Basic Issue Items (cont)

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION CAGEC AND PART NUMBER | USABLE ON CODE | (4) U/M | (5) QTY RQD |
|------------------------|---------------------------------|---|-----------------------------|------------|-------------------|
| 22 | 4933-01-033-1504 | SCRAPER, COMBINAT- ION REGULATOR (19200) 11826005 | BC6, BJ8 | EA | 1 |
| 23 | 1005-01-448-2614 | SHIELD ASSEMBLY, PROTECTIVE (0EUP8) BB-M240G-HS | BC6 | EA | 1 |
| 24 | 1005-00-312-7177 | SLING ASSEMBLY (W/O HOOKS) (19200) 12002983 | BC6 | EA | 1 |
| 25 | 1005-00-726-6110 | SWAB HOLDER SECTION (19200) 7266110 | BC6, BJ8, G69, L04 | EA | 1 |

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OPERATOR'S MANUAL, FOR
MACHINE GUN, M1919A4 (1928) (1935);
MK40B (1929-41-3129); MK40C (1932-51-0585-758);
MK40D (1939-41-418-5051); MK41E (1932-51-327-4205);
MK41F (1939-41-418-5051); MK41G (1939-41-418-5051)

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HEADQUARTERS, DEPARTMENTS OF THE ARMY,
AIR FORCE, MARINE CORPS AND NAVY
JUNE 2002

2AN0104

0038 00-17

**COMPONENTS OF THE END ITEM
AND BASIC ISSUE ITEMS (cont)**

0038 00

Table 2. Basic Issue Items (cont)

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION CAGEC AND PART NUMBER | USABLE ON CODE | (4) U/M | (5) QTY RQD |
|------------------------|---------------------------------|--|-------------------|------------|-------------------|
| 26 | 1005-01-411-9003 | SWIVEL, HOOK, SLING, CARRYING (3S679) 3602004460 | BC6 | EA | 2 |
| 27 | 1005-01-458-7004 | TOOL, FRONT SIGHT ADJUSTMENT TOOL (19200) 12012086 | BJ8 | EA | 1 |
| 28 | 4933-01-033-1503 | TOOL, COMBINATION, SCRAPER AND EXTRACTOR (19200) 11826059 | BC6, BJ8 | EA | 1 |
| 29 | | TM 9-1005-313-10 | | EA | 1 |

END OF WORK PACKAGE

0038 00-18

RELATED PUBLICATIONS

- CTA 8-100 Army Medical Department Expendable/Durable Items
- CTA 50-970 Expendable/Durable Items (Except Medical, Class V, Repair Parts, and heraldic Items)
- MCO 4855.10 Quality deficiency Report Manual

END OF WORK PACKAGE

0037 00-4

**ADDITIONAL AUTHORIZATION LIST AND
ASSOCIATED EQUIPMENT LIST**

0039 00

This work package lists additional items you are authorized for the support of the machine gun.

This list identifies items that do not have to accompany the machine gun and that do not have to be turned in with it. These items are all authorized to you by CTA, MOTE, TDA, or JTA.

EXPLANATION OF COLUMNS. National stock numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support the equipment. The items are listed in alphabetical sequence by item name under the type document (i.e., CTA, MTOE, TDA, or JTA) which authorizes the item(s) to you.

**ADDITIONAL AUTHORIZATION LIST AND
ASSOCIATED EQUIPMENT LIST (cont)**

0039 00

Table 1. Additional Authorization List

| (1) NATIONAL STOCK NUMBER | (2) DESCRIPTION CAGEC AND PART NUMBER | USABLE ON CODE | (3) U/M | (4) QTY RQD |
|---------------------------------|--|-------------------------------------|------------|-------------------|
| CTA AUTHORIZED ITEMS | | | | |
| 1005-01-148-7437 | BLANK FIRING ATTACHMENT, M21 (19200) 11833471 | AG8, G69, L04 | EA | 1 |
| 1005-01-480-0289 | BLANK FIRING ATTACHMENT, M24 (19200) 12993733 | BB2, BC2, BC6, BJ8, BN4 | EA | 2 |
| 1005-01-033-3925 | BRUSH, CLEANING, GAS CYLINDER (19200) 11826118 | | EA | 1 |

0039 00-2

Change 1

| (1) NATIONAL STOCK NUMBER | (2) DESCRIPTION CAGEC AND PART NUMBER | USABLE ON CODE | (3) U/M | (4) QTY RQD |
|---------------------------------|--|---------------------|------------|-------------------|
| 1005-00-556-4174 | BRUSH, CLEANING, SMALL ARMS BORE (10001) 5584174 | | EA | 2 |
| 1005-00-690-3115 | BRUSH, CLEANING, SMALL ARMS CHAMBER (19205) 7790452 | | EA | 1 |
| 1005-00-350-4100 | BRUSH, CLEANING, SMALL ARMS RECEIVER (19204) 8448466 | BB2, BN4 | EA | 1 |
| 1005-00-550-6573 | CASE, SMALL ARMS CLEANING ROD (19304) 5506573 | | EA | 1 |
| 5340-01-265-2683 | HANDLE ASSEMBLY, CLEANING ROD (19204) 12900436 | | EA | 1 |
| 8415-01-092-0039 | MITTEN, HEAT PROTECTIVE M5337 (81349) MIL-M-11199 | BB2, BC6, BN4 | EA | 1 |

0039 00-3

Change 1

**ADDITIONAL AUTHORIZATION LIST AND
ASSOCIATED EQUIPMENT LIST (cont)**

0039 00

Table 1. Additional Authorization List (cont)

| (1) NATIONAL STOCK NUMBER | (2) DESCRIPTION CAGEC AND PART NUMBER | (3) USABLE ON CODE | (4) QTY RQD |
|---------------------------------|--|--------------------------|-------------------|
| CTA AUTHORIZED ITEMS | | | |
| 4933-01-047-3394 | REAMER, CLEANING (19200) 11826036 | EA | 1 |
| 1005-00-726-6109 | ROD SECTION, CLEANING, SMALL ARMS (19205) 7266109 | EA | 5 |
| 4933-01-033-1504 | SCRAPER, COMBINATION REGULATOR (19200) 11826005 | EA | 1 |
| 1005-00-726-6110 | SWAB HOLDER SECTION, SMALL ARMS CLEANING (19204) 7266110 | EA | 1 |

0039 00-4

| (1) NATIONAL STOCK NUMBER | (2) DESCRIPTION CAGEC AND PART NUMBER | USABLE ON CODE | (3) U/M | (4) QTY RQD |
|---------------------------------|--|---------------------|------------|--------------------|
| 4933-01-033-1503 | TOOL, COMBINATION SCRAPER AND EXTRACTOR (19200) 11826059 | | EA | 1 |
| 1005-01-413-4098 | MOUNT, MACHINE GUN, M197 (19200) 12956264 | BB2, BC6 | EA | 1 |
| 1005-01-411-6341 | MOUNT, PEDESTAL, MACHINE GUN, M6 (19200) 12596270 | BB2, BC6 | EA | 1 |
| 1095-01-466-2065 | RACK, STORAGE, SMALL ARMS (19200) 12991083 | BB2, BC6, BN4 | EA | 1 per 9 weapons |
| <i>MTOE AUTHORIZED ITEMS</i> | | | | |
| 1005-00-710-5599 | MOUNT, TRIPOD, MACHINE GUN, M122 (19200) 7790723 | BC6 | EA | 1 |

0039 00-5

Change 1

**ADDITIONAL AUTHORIZATION LIST AND
ASSOCIATED EQUIPMENT LIST (cont)**

0039 00

Table 1. Additional Authorization List (cont)

| (1) NATIONAL STOCK NUMBER | (2) DESCRIPTION CAGEC AND PART NUMBER | USABLE ON CODE | (3) U/M | (4) QTY RQD |
|-------------------------------------|---|-------------------|------------|-------------------|
| <i>MTOE AUTHORIZED ITEMS (cont)</i> | | | | |
| 1005-01-433-1617 | MOUNT, TRIPOD, MACHINE GUN, M122A1 (19200) 12976949 | BB2 | EA | 1 |
| 1005-01-411-6340 | FLEXIBLE MOUNT ASSEMBLY (19200) 12976940 | BC6 | EA | 1 |
| 1005-01-503-0141 | M192 LIGHTWEIGHT TRIPOD (19200) 13001669 | BB2 | EA | 1 |

END OF WORK PACKAGE

0039 00-6

Change 1

**EXPENDABLE/DURABLE SUPPLIES
AND MATERIALS LIST**

0040 00

This work package lists expendable/durable supplies and materials you need to operate and maintain the machine gun. This is for informational purposes only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (Except Medical, Class V, Repair Parts, and Heraldic items); or CTA 8-100, Army Medical Department Expendable/ Durable Items.

EXPLANATION OF COLUMNS.

Column (1) – Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., “Use cleaner, lubricant and preservative (item 1, WP 0000 00)”).

Column (2) – Level. This column identifies the lowest level of maintenance that requires the listed item.

C – Operator/Crew

0040 00-1

**EXPENDABLE/DURABLE SUPPLIES
AND MATERIALS LIST (cont)**

0040 00

Column (3) –National Stock Number. This is the National Stock Number assigned to the item; use it to requisition the item.

Column (4) – Description. Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the Contractor and Government Entity Code (CAGEC) in parentheses followed by the part number.

Column (5) - Unit of Measure (U/M). Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., EA, IN, PR). The unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

Table 1. Expendable/Durable Supplies List

| (1) ITEM NO. | (2) LEVEL | (3) NATIONAL STOCK NUMBER | (4) DESCRIPTION | (5) U/M |
|--------------------|--------------|--------------------------------------|---|------------|
| 1 | C | 9150-01-102-1473 9150-01-079-6124 | CLEANER, LUBRICANT AND PRESERVATIVE, grade 2, (CLP) (81349) MIL-PRF-63460 ½ oz bottle 4 oz bottle | EA EA |
| 2 | C | 9920-00-292-9946 | CLEANER, TOBACCO, PIPE (92849) DILLS 1 pkg (32 per pkg) (Marine Corps only) | EA |
| 3 | C | 6850-00-224-6656 6850-00-224-6657 | CLEANING COMPOUND, SOLVENT: rifle bore cleaner (RBC) (81349) MIL-PRF-372 2 oz can 6 oz can | EA EA |

0040 00-3

**EXPENDABLE/DURABLE SUPPLIES
AND MATERIALS LIST (cont) 0040 00**

Table 1. Expendable/Durable Supplies List (cont)

| (1) ITEM NO. | (2) LEVEL | (3) NATIONAL STOCK NUMBER | (4) DESCRIPTION | (5) U/M |
|--------------------|--------------|---------------------------------|--|------------|
| 4 | C | 9150-00-664-0038 | LUBRICATING OIL, WEAPONS (LAW) (81349) MIL-PRF-14107 4 oz | EA |
| 5 | C | 9150-00-949-0323 | LUBRICATING OIL, WEAPONS semi-fluid w/Teflon (LSA-T) (81349) MIL-L-46150 8 oz bottle (Marine Corps only) | EA |
| 6 | C | 9150-00-889-3522 | LUBRICATING OIL, WEAPONS Semi-fluid (LSA) (19204) MIL-L-46000 4 oz bottle | EA |

0040 00-4

| (1) ITEM NO. | (2) LEVEL | (3) NATIONAL STOCK NUMBER | (4) DESCRIPTION | (5) U/M |
|--------------------|--------------|---------------------------------|---|------------|
| 7 | C | 7920-00-205-1711 | WIPING RAG: cotton (58536) A-A-531 50 lb bdl | LB |
| 8 | C | 1005-00-288-3565 | SWAB, SMALL ARMS CLEANING: cotton (19204) 5019316 1pkg (1000 per pkg) | EA |
| 9 | C | 6920-00-078-5126 | TARGET, BASIC MACHINE GUN QUALIFICATION/10 METER QUALIFICATION TARGET (19204) 8426940 1box (200 per box) (Marine Corps only) | BX |

0040 00-5/6 blank

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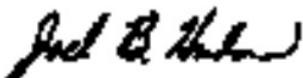
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By Order of the Secretary of the Army, Air Force and Commandant of
the Marine Corps.

Official:



JOEL B HUDSON
Administrative Assistant to the
Secretary of the Army
0215502

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General, United States Army
Chief of Staff

D.R. BLOOMER
Colonel, USMC
Director, Program Support

MICHAEL E. RYAN
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